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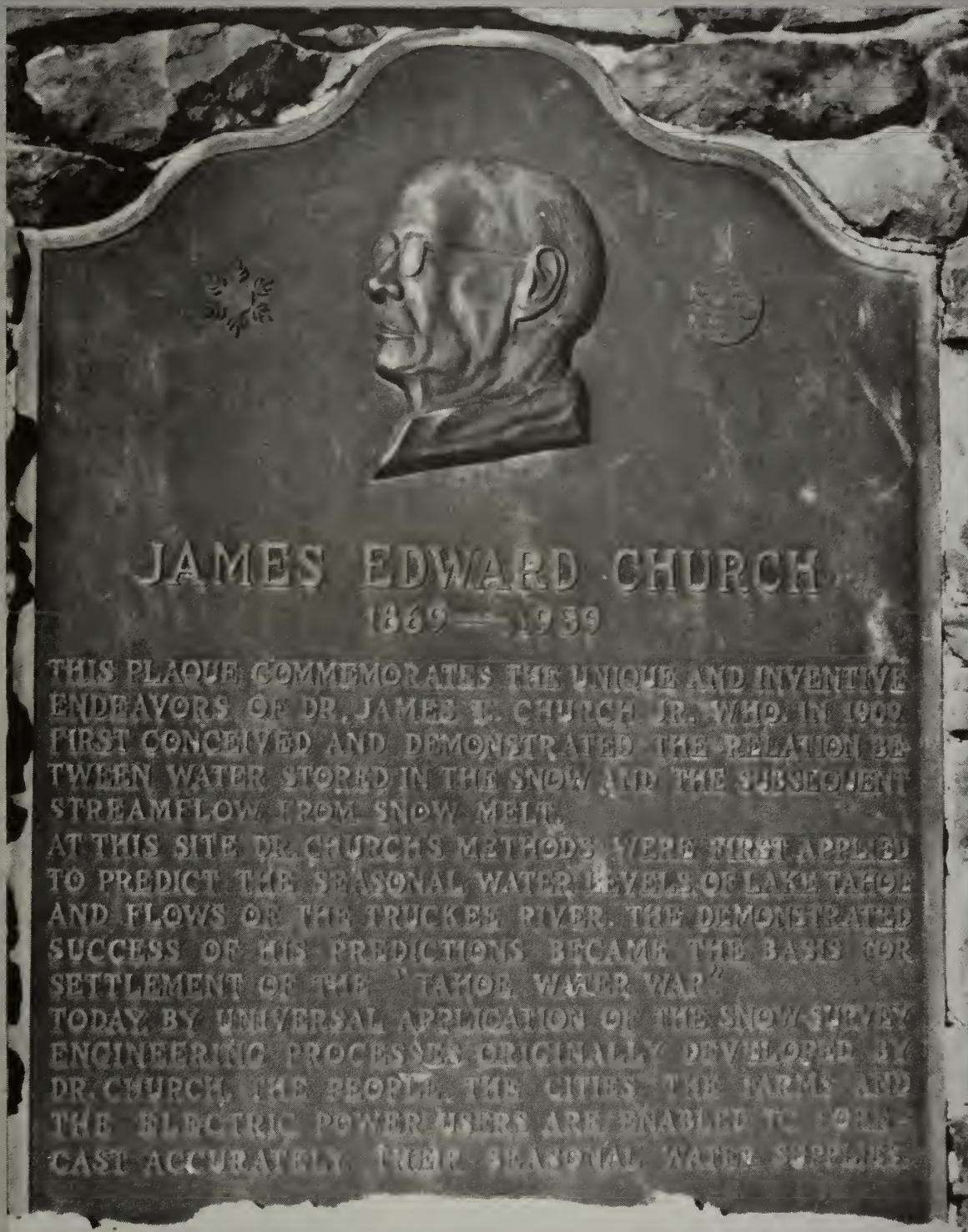


Nevada Water Supply Outlook

April 1, 1989

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U.S. DEPT. OF AGRICULTURE
SOIL CONSERVATION SERVICE
RENO, NEVADA
APR 13 1989



Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Soil Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

An error is associated with each forecast, and this error decreases as the season progresses and more data becomes available. To express the range of error that can be expected, "most probable" forecasts are issued along with a range representing a "reasonable minimum" and a "reasonable maximum". Actual streamflow can be expected to fall within this range in eight out of ten years. Additionally two specific scenarios are provided based on the assumption that subsequent precipitation will be "wet", above average, or "dry", below average.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

| STATE | ADDRESS |
|------------|---|
| Alaska | 201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687 |
| Arizona | 201 East Indianola Ave., Suite 200, Phoenix, AZ 85012 |
| Colorado | 2490 West 26th Ave., Building A, 3rd floor, Denver, CO 80211 |
| Idaho | 3244 Elder Street, Room 124, Boise, ID 83705 |
| Montana | 10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715 |
| Nevada | 1201 Terminal Way, Room 219, Reno, NV 89502 |
| New Mexico | 517 Gold Ave. S.W., Room 3301, Albuquerque, NM 87102-3157 |
| Oregon | 1220 Southwest 3rd Ave., Room 1640, Portland, OR 97204 |
| Utah | 4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147 |
| Washington | W. 920 Riverside, Room 360, Spokane, WA 99201-1080 |
| Wyoming | Federal Building, 100 "B" Street, Room 3124, Casper, WY 82601 |

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 248, Portland, OR 97209-3489.

Water supply reports published by other agencies:

California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A3V1; Alberta, Environment Technical Services Division, 9820 106th St., Edmonton, Alberta T5K 2J6.

Nevada Water Supply Outlook

and

Federal - State - Private Cooperative Snow Surveys

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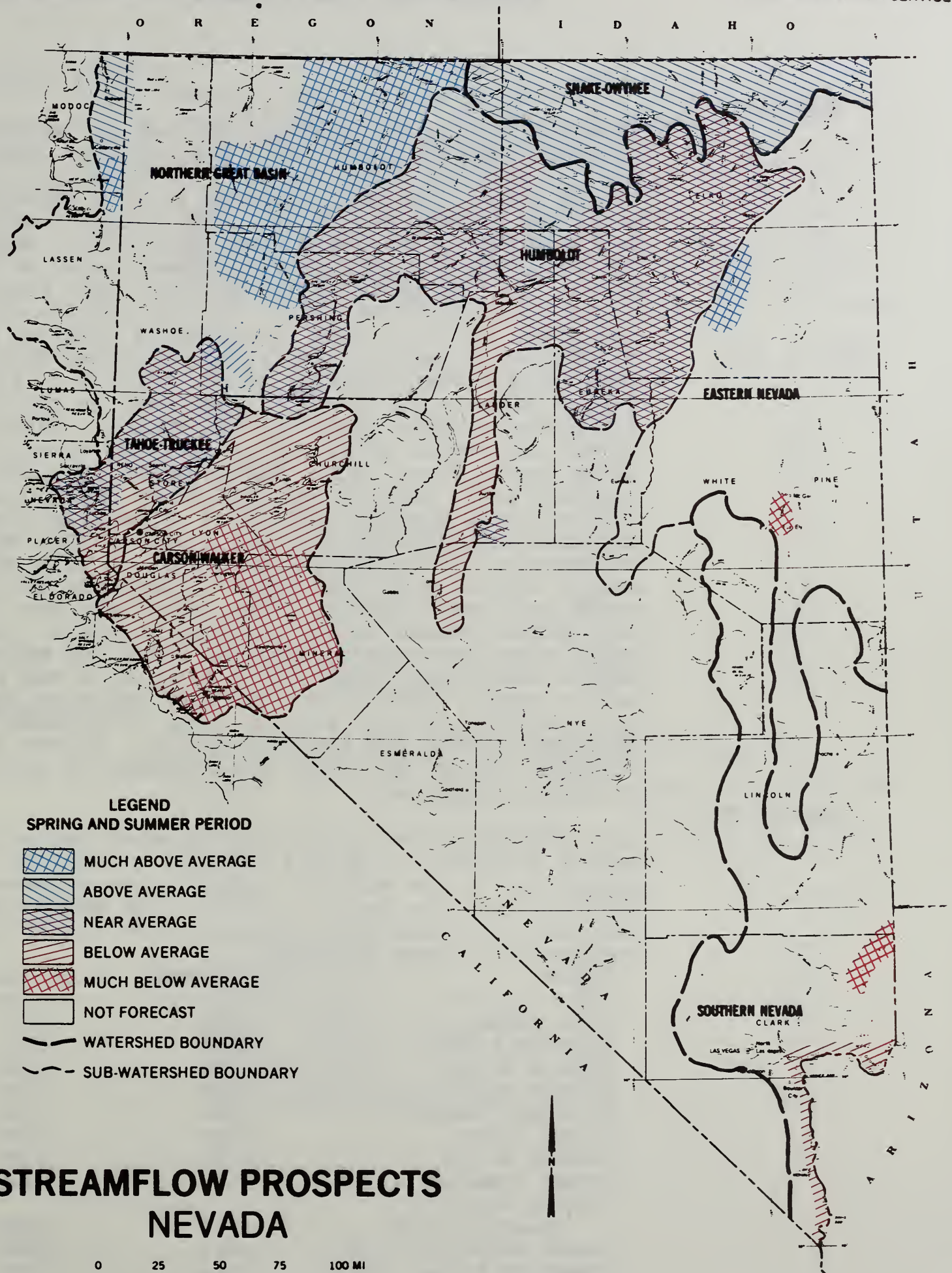
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GENERAL OUTLOOK

SUMMARY

SNOWPACK CONDITIONS REMAINED THE SAME OR IMPROVED SOMEWHAT OVER THE LEVELS THEY WERE AT LAST MONTH IN MOST OF NEVADA'S MAJOR BASINS. THE HUMBOLDT RIVER SYSTEM SHOWED A SLIGHT REDUCTION IN IT'S SNOWPACK, WHILE THE EASTERN NEVADA AND LOWER COLORADO RIVER BASINS EXPERIENCED SIGNIFICANT REDUCTIONS. MARCH PRECIPITATION WAS EXCELLENT THROUGHOUT MOST OF THE STATE. ALL THE MAJOR BASINS REPORTED WELL ABOVE AVERAGE PRECIPITATION EXCEPT FOR THE EASTERN NEVADA AND LOWER COLORADO RIVER BASINS WHICH RECEIVED BELOW TO WELL BELOW AVERAGE PRECIPITATION DURING MARCH. YEAR TO DATE PRECIPITATION (SINCE OCTOBER 1, 1988) IS NEAR TO BELOW AVERAGE FOR A LARGE PART OF THE STATE. THE LOWER HUMBOLDT RIVER, CLOVER VALLEY & FRANKLIN RIVER, AND OWYHEE RIVER BASINS REPORTED ABOVE TO WELL ABOVE NORMAL TOTAL PRECIPITATION WHILE THE LOWER COLORADO RIVER BASIN SHOWS WELL BELOW YEAR TO DATE PRECIPITATION TOTALS. RESERVOIR STORAGE IN NEVADA INCREASED SIGNIFICANTLY IN MARCH DUE TO HIGH MARCH STREAMFLOWS BUT REMAINS BELOW NORMAL TO WELL BELOW NORMAL OVER MOST OF THE STATE. STORAGE IN THE OWYHEE RIVER AND LOWER COLORADO RIVER BASINS WAS NEAR TO WELL ABOVE AVERAGE ON THE LAST DAY IN MARCH. THE SEVEN MAJOR RESERVOIRS SUPPLYING WATER FOR NORTHERN NEVADA WATER USERS WERE 39% OF AVERAGE ON THE LAST DAY OF MARCH. STREAMFLOW FORECASTS INDICATE WELL BELOW AVERAGE TO NEAR AVERAGE FLOWS IN WESTERN, EASTERN, CENTRAL AND SOUTHERN NEVADA. BASINS IN NORTHERN NEVADA CAN EXPECT NEAR AVERAGE TO WELL ABOVE AVERAGE STREAMFLOWS.

SNOWPACK

High precipitation amounts during March helped most basins maintain or improve snowpack conditions. Conditions in the Humboldt River system decreased slightly from the March 1 survey. The Eastern Nevada and Lower Colorado River basins showed significant decreases in their snowpacks.

| BASIN | % OF AVERAGE | % OF LAST YEAR |
|--|--------------|----------------|
| ----- | ----- | ----- |
| LAKE TAHOE..... | 93% | 332% |
| TRUCKEE RIVER..... | 100% | 314% |
| CARSON RIVER..... | 87% | 246% |
| WALKER RIVER..... | 70% | 173% |
| N. GREAT BASIN..... | 134% | 416% |
| SNAKE RIVER..... | 113% | 125% |
| OWYHEE RIVER..... | 125% | 210% |
| UPPER HUMBOLDT RIVER..... | 103% | 195% |
| CLOVER VALLEY & FRANKLIN RIVER..... | 153% | 303% |
| LOWER HUMBOLDT RIVER..... | 141% | 300% |
| HUMBOLDT RIVER (TOTAL).... | 118% | 235% |
| EASTERN NEVADA..... | 60% | 86% |
| LOWER COLORADO RIVER..... | 45% | 134% |

PRECIPITATION

Precipitation during March was well above average for most of the state. The Eastern Nevada and Lower Colorado River basins received below normal to well below normal precipitation. Total precipitation since October 1, 1988 is below to near normal for most of the major basins in the state. The Lower Humboldt River and Clover Valley & Franklin River basin report well above normal yearly totals while the Lower Colorado River Basin has had well below normal precipitation since the beginning of the water year.

| BASIN | MARCH % OF AVERAGE | YEAR TO DATE % OF AVERAGE |
|--|-----------------------|------------------------------|
| LAKE TAHOE..... | 228% | 100% |
| TRUCKEE RIVER..... | 185% | 89% |
| CARSON RIVER..... | 170% | 85% |
| WALKER RIVER..... | 148% | 88% |
| N. GREAT BASIN..... | 196% | 104% |
| UPPER HUMBOLDT RIVER..... | 169% | 99% |
| LOWER HUMBOLDT RIVER..... | 207% | 133% |
| CLOVER VALLEY & FRANKLIN RIVER..... | 245% | 131% |
| SNAKE RIVER..... | 140% | 100% |
| OWYHEE RIVER..... | 189% | 122% |
| EASTERN NEVADA..... | 85% | 80% |
| LOWER COLORADO RIVER..... | 40% | 53% |

RESERVOIRS

High March streamflows resulted in significant increases in most of the reservoirs in the state. However, storage remains below average to well below average for most of the basins. Only the Owyhee River and the Lower Colorado River basins had near average to above average storage on the last day of March.

| BASIN | % CAPACITY | % OF AVERAGE |
|-----------------------------|------------|--------------|
| LAKE TAHOE..... | 12% | 21% |
| TRUCKEE RIVER..... | 41% | 74% |
| CARSON RIVER..... | 45% | 58% |
| WALKER RIVER..... | 30% | 42% |
| LOWER HUMBOLDT RIVER..... | 21% | 33% |
| OWYHEE RIVER..... | 39% | 96% |
| LOWER COLORADO RIVER..... | 88% | 116% |
| SEVEN MAJOR RESERVOIRS..... | 24% | 39% |

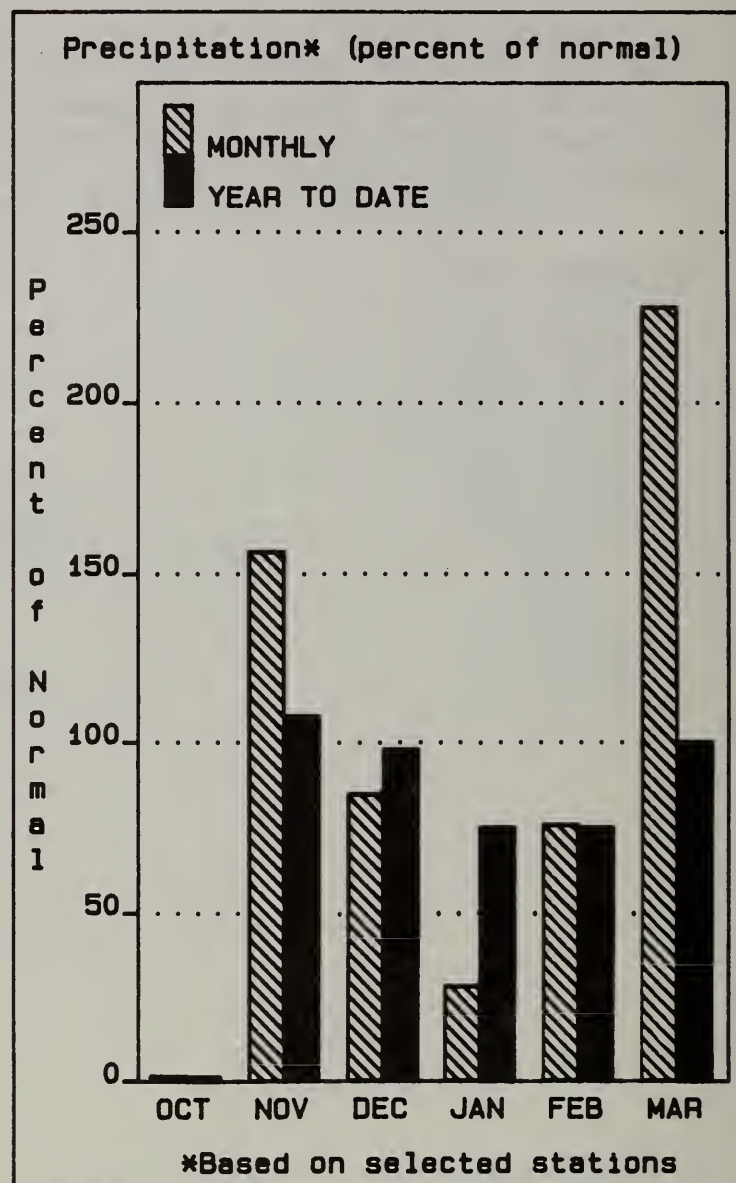
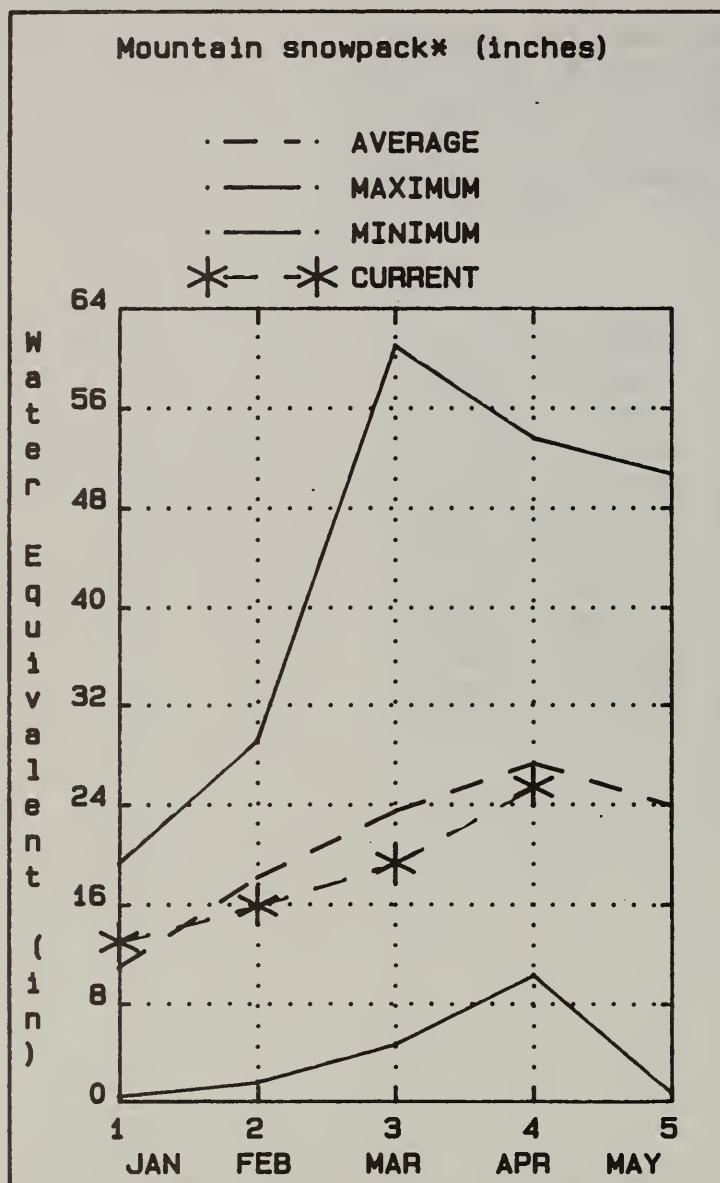
STREAMFLOW

Because of excellent conditions in March, streamflow forecasts increased from last month for many streams. Streamflow forecasts range from well below average in the Lower Colorado River and portions of the Eastern Nevada and Walker River basins to well above average in the Clover Valley & Franklin River Basin.

| BASIN | % OF AVERAGE |
|-------------------------------------|--------------|
| ----- | ----- |
| TRUCKEE RIVER..... | 76%- 93% |
| CARSON RIVER..... | 71%- 81% |
| WALKER RIVER..... | 65%- 71% |
| N. GREAT BASIN..... | 117%-146% |
| UPPER HUMBOLDT RIVER..... | 91%-109% |
| LOWER HUMBOLDT RIVER..... | 77%-128% |
| CLOVER VALLEY & FRANKLIN RIVER..... | 138% |
| SNAKE RIVER..... | 118% |
| OWYHEE RIVER..... | 112%-114% |
| EASTERN NEVADA..... | 63%-100% |
| LOWER COLORADO RIVER..... | 45%- 80% |



LAKE TAHOE BASIN



Snowpack conditions in the Lake Tahoe Basin improved to near average during March. The basin currently has 93% of the April 1 average and 332% of the water content present last year. March precipitation for the Lake Tahoe Basin was 228% of average and 1512% of last year. Precipitation since October 1, 1988 is 100% of average and 205% of last year. The elevation at Lake Tahoe on the last day of March was 6223.74 or 21% of average. Storage on that day was 89,840 acre feet. The water level at Lake Tahoe came above its natural rim on March 5. The forecast for the rise in Lake Tahoe is 1.1 feet or 74% of normal from April-High (assuming the gates are closed).

LAKE TAHOE BASIN

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST PERIOD | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVG.) | WET SUBS. (1000AF) | DRY SUBS. (1000AF) | REAS. MAX. (1000AF) | REAS. MIN. (1000AF) | 25 YR. AVG. (1000AF) |
|---|--------------------|------------------------------|------------------------------|--------------------------|--------------------------|---------------------------|---------------------------|----------------------------|
| LAKE TAHOE RISE (assume gates closed) APR-HIG | | 1.1 | 74 | | | 1.6 | 0.6 | 1.5 |

RESERVOIR STORAGE

(1000AF)

WATERSHED SNOWPACK ANALYSIS

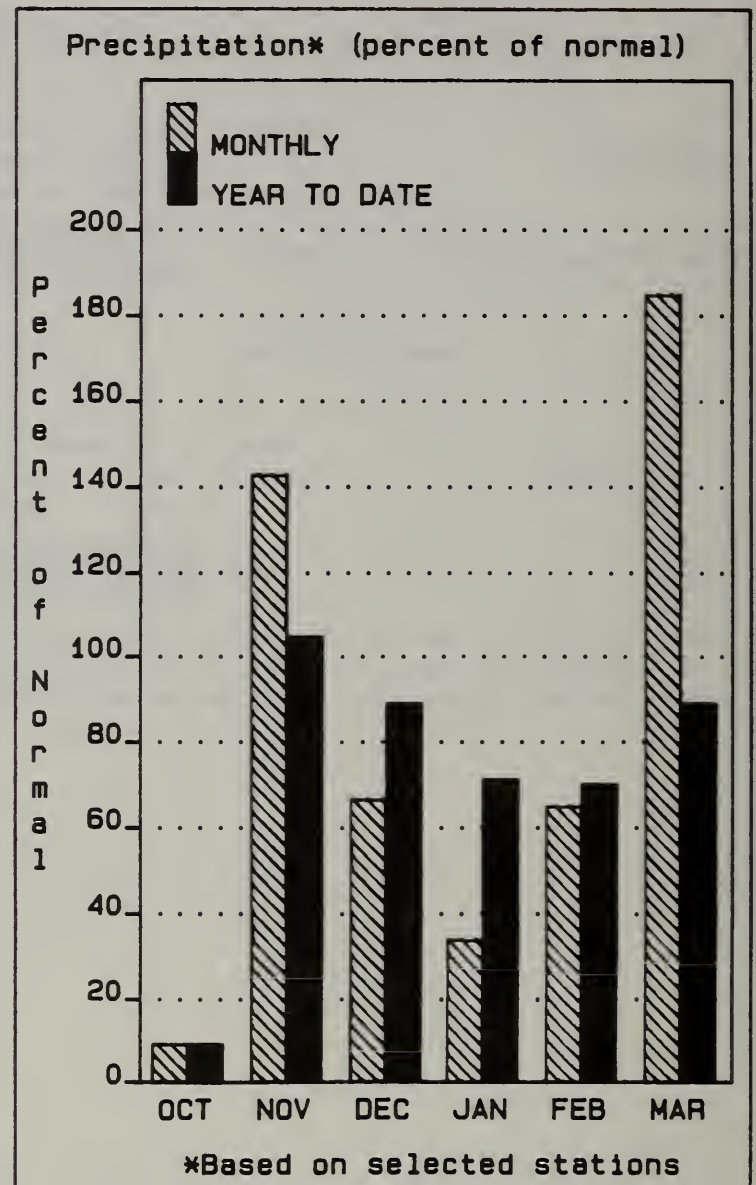
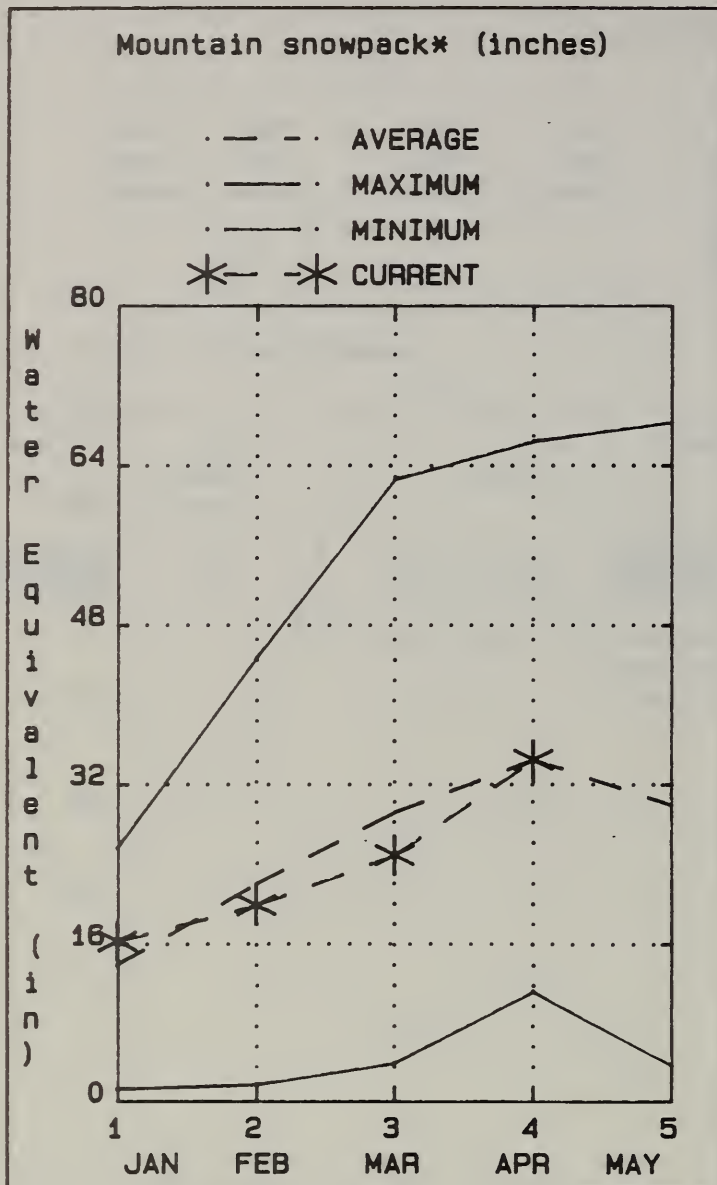
| RESERVOIR | USEABLE CAPACITY | ** USEABLE STORAGE ** THIS YEAR | LAST YEAR | AVG. | WATERSHED | NO. COURSES AVG'D | THIS YEAR AS % OF LAST YR. AVERAGE |
|------------|---------------------|---------------------------------------|--------------|-------|-----------------|-------------------------|--|
| LAKE TAHOE | 744.6 | 89.8 | 207.7 | 431.9 | LAKE TAHOE RISE | 16 | 332 93 |

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

TRUCKEE RIVER BASIN



Snowpack conditions in the Truckee River Basin increased to near normal during March. The basin currently has 100% of the April 1 average and 314% of the water content present last year. March precipitation for the Truckee River Basin was 185% of average and 2320% of last year. Precipitation since October 1, 1988 is 89% of average and 216% of last year. Reservoir storage on the last day of March was 74% of average. Total storage for Boca, Prosser and Stampede reservoirs was 122,194 acre feet. Streamflows in the Truckee River Basin are expected to be below average to near average. The Truckee River at Farad is expected to flow at 91% of average or 260,000 acre feet during the April-July forecast period.

TRUCKEE RIVER BASIN

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST | MOST | MOST | WET | DRY | REAS. | REAS. | 25 YR. |
|-----------------------------------|----------|----------------------|----------------------|-------------------|-------------------|------------------|------------------|------------------|
| | PERIOD | PROBABLE (1000AF) | PROBABLE (% AVG.) | SUBS. (1000AF) | SUBS. (1000AF) | MAX. (1000AF) | MIN. (1000AF) | AVG. (1000AF) |
| TRUCKEE RIVER at Farad 2 | APR-JUL | 260 | 91 | 270 | 250 | 335 | 186 | 285 |
| LITTLE TRUCKEE RIVER above Boca 2 | APR-JUL | 85 | 93 | 88 | 83 | 115 | 55 | 92 |
| STEAMBOAT CREEK at Steamboat 2 | APR-JUL | 5.4 | 76 | | | 7.6 | 3.2 | 7.1 |
| GALENA CREEK nr Steamboat, Nv | APR-JUL | 3.9 | 87 | | | 5.3 | 2.5 | 4.5 |
| PYRAMID LAKE RISE (LOW 2/1/87) | LOW-HIG | -0.5 | -41 | | | | | 1.2 |

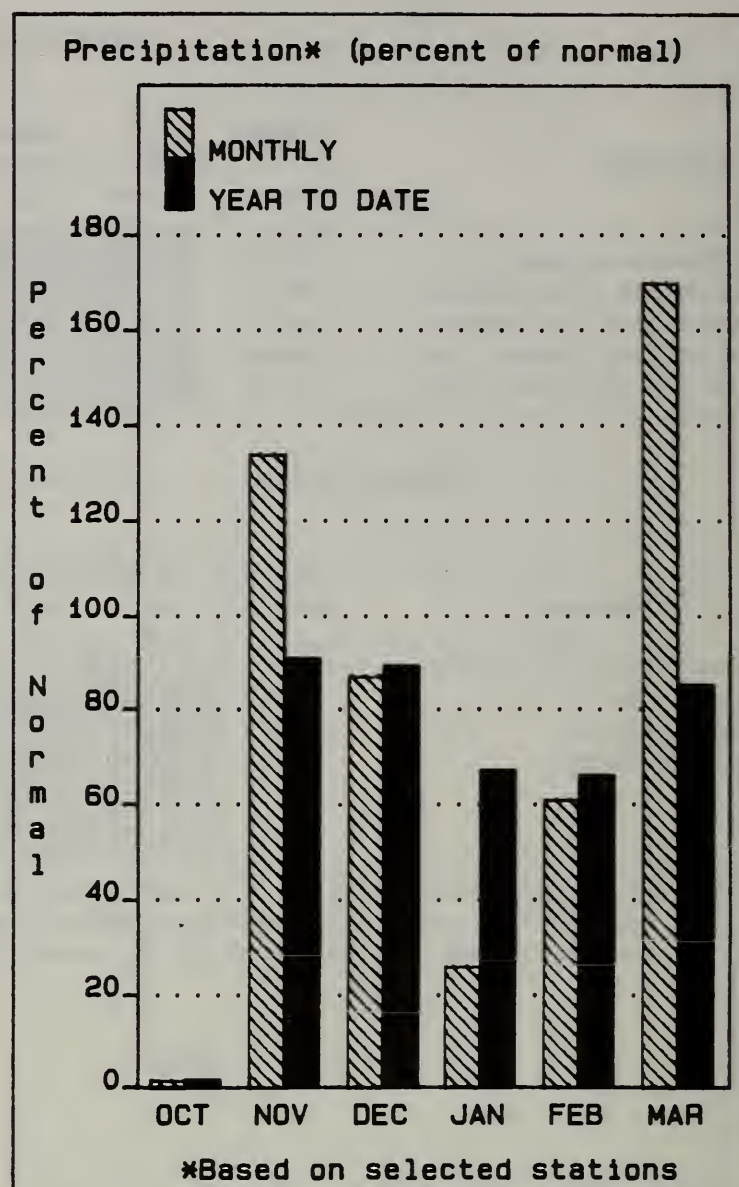
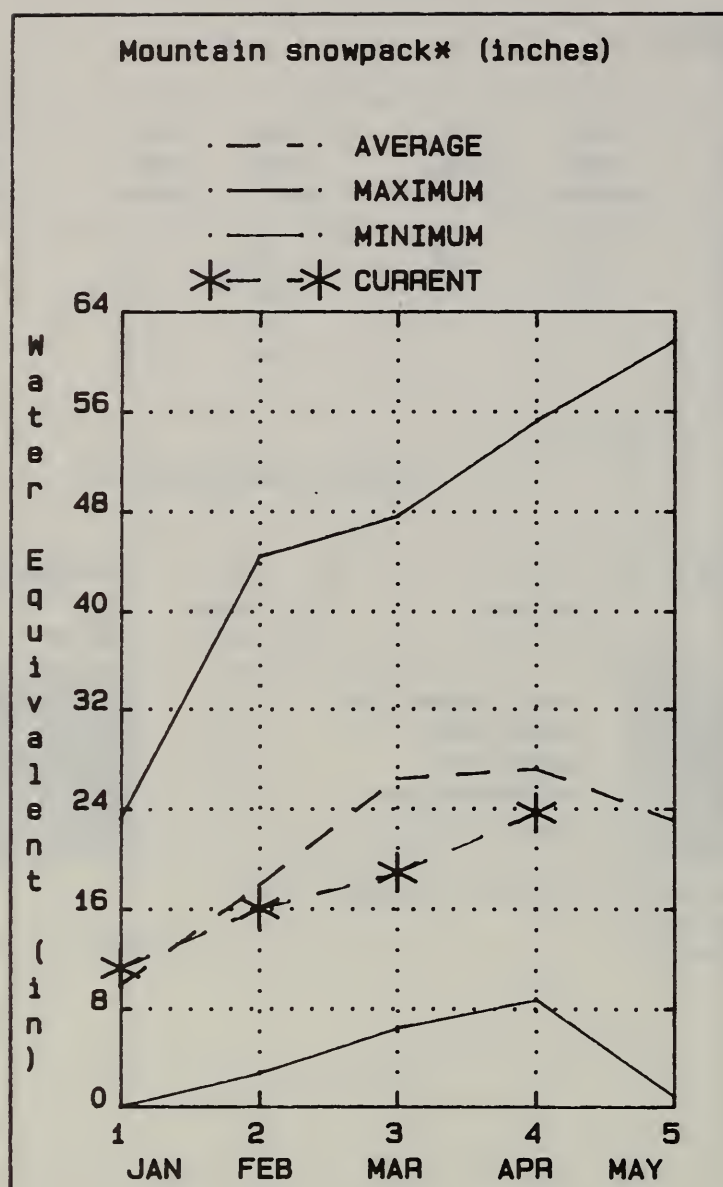
| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | | |
|----------------------------|---------------------|-----------------------|--------------|-------|-----------------------------|-------------------------|-------------------|---------|
| RESERVOIR | USEABLE CAPACITY | ** USEABLE STORAGE ** | | | WATERSHED | NO. COURSES AVG'D | THIS YEAR AS % OF | |
| | | THIS YEAR | LAST YEAR | AVG. | | | LAST YR. | AVERAGE |
| BOCA RESERVOIR | 40.9 | 29.1 | 10.4 | 22.5 | LITTLE TRUCKEE RIVER | 5 | 301 | 110 |
| PROSSER RESERVOIR | 28.6 | 15.7 | 9.8 | 8.6 | SAGEHEN CREEK | 5 | 305 | 98 |
| STAMPEDE RESERVOIR | 226.5 | 77.4 | 81.2 | 133.4 | GALENA CREEK | 2 | 254 | 100 |
| | | | | | STEAMBOAT DRAINAGE | 3 | 263 | 96 |
| | | | | | PYRAMID LAKE | 33 | 321 | 97 |

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

CARSON RIVER BASIN



Snowpack conditions in the Carson River Basin improved during March but remain below average for the third month in a row. The basin currently has 87% of the April 1 average and 246% of the water content present last year. March precipitation for the Carson River Basin was 170% of average and 1341% of last year. Precipitation since October 1, 1988 is 85% of average and 169% of last year. Reservoir storage on the last day of March was 58% of average. Total storage for Lahontan Reservoir was 132,553 acre feet. Streamflows in the Carson River Basin are expected to be below normal. The Carson River near Carson City is expected to flow at 73% of average or 145,000 acre feet during the April-July forecast period, with a peak flow of about 1450 c.f.s. Peak flow for the East Fork of the Carson River near Gardnerville is expected to be about 1450 c.f.s. Low flow (200 cfs) should occur on or about June 11, 1989.

CARSON RIVER BASIN

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST | MOST | MOST | WET | DRY | REAS. | REAS. | 25 YR. |
|-------------------------------------|----------|----------------------|----------------------|-------------------|-------------------|------------------|------------------|------------------|
| | PERIOD | PROBABLE (1000AF) | PROBABLE (% AVG.) | SUBS. (1000AF) | SUBS. (1000AF) | MAX. (1000AF) | MIN. (1000AF) | AVG. (1000AF) |
| EF CARSON RIVER nr Gardnerville, Nv | APR-JUL | 160 | 81 | 172 | 148 | 215 | 104 | 198 |
| WF CARSON RIVER at Woodfords, Ca | APR-JUL | 45 | 79 | 46 | 44 | 62 | 28 | 57 |
| CARSON RIVER near Carson City, Nv | APR-JUL | 145 | 73 | 151 | 139 | 205 | 84 | 198 |
| CARSON RIVER near Ft. Churchill, Nv | APR-JUL | 130 | 71 | 134 | 126 | 188 | 72 | 182 |

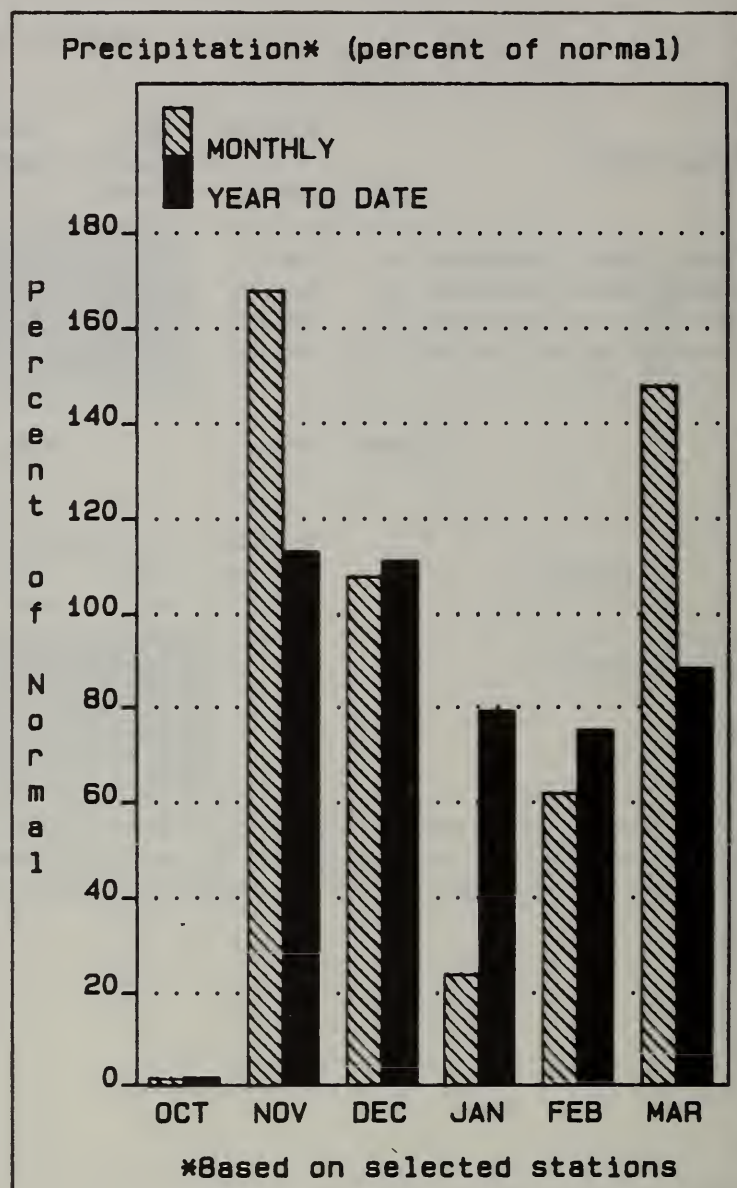
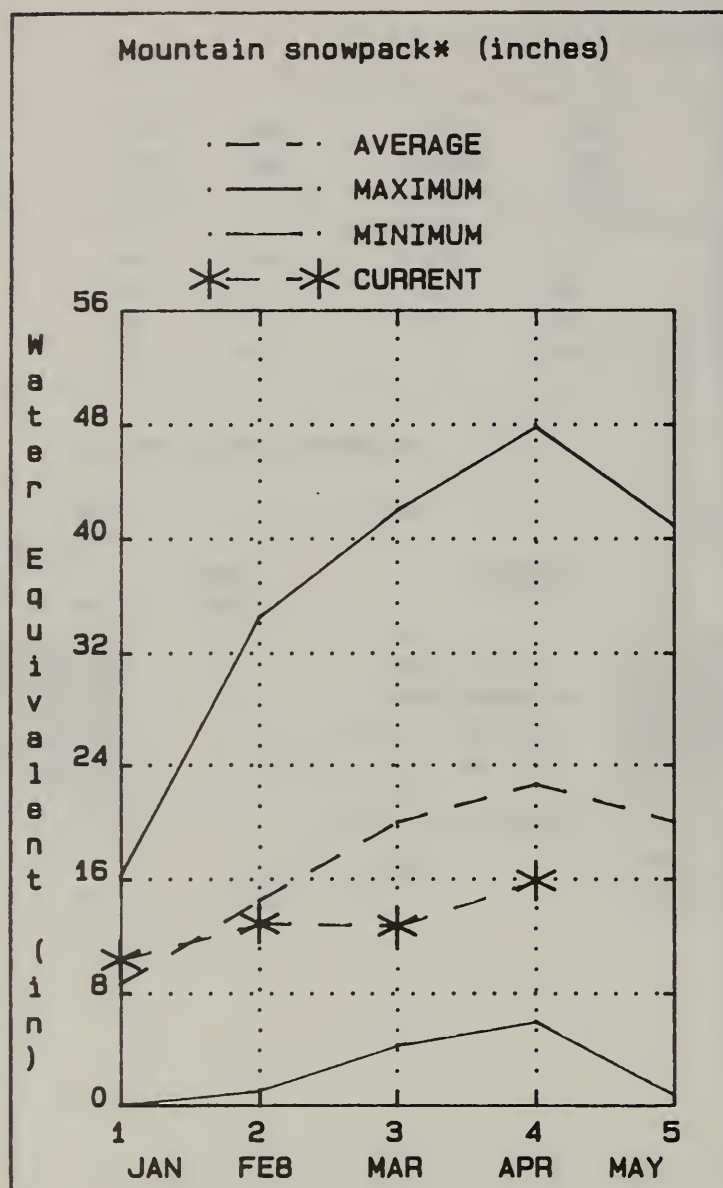
| RESERVOIR STORAGE | | (1000AF) | | WATERSHED SNOWPACK ANALYSIS | | | | |
|--------------------|----------|-----------------------|-------|-----------------------------|---------------------------|---------|-------------------|---------|
| RESERVOIR | USEABLE | ** USEABLE STORAGE ** | | | WATERSHED | NO. | THIS YEAR AS % OF | |
| | CAPACITY | THIS | LAST | AVG. | | COURSES | ----- | ----- |
| | | YEAR | YEAR | AVG. | | AVG'D | LAST YR. | AVERAGE |
| LAHONTAN RESERVOIR | 295.1 | 132.6 | 169.9 | 226.7 | E. CARSON RIVER | 5 | 229 | 87 |
| | | | | | W. CARSON RIVER | 4 | 224 | 88 |
| | | | | | CARSON Rv. at Carson City | 4 | 248 | 82 |
| | | | | | CARSON Rv. at Ft. Churchi | 4 | 248 | 82 |

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

WALKER RIVER BASIN



Snowpack conditions in the Walker River Basin improved slightly during March but are still below normal. The basin currently has 70% of the April 1 average and 173% of the water content present last year. March precipitation for the Walker River Basin was 148% of average and 595% of last year. Precipitation since October 1, 1988 is 88% of average and 156% of last year. Reservoir storage on the last day of March was 42% of average. Total storage for Bridgeport and Topaz reservoirs was 30,922 acre feet. Streamflows in the Walker River Basin are expected to be below average to well below average. The West Walker River near Coleville is expected to flow at 71% of average or 110,000 acre feet during the April-July forecast period, with a peak flow of about 1100 c.f.s.

WALKER RIVER BASIN

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST PERIOD | MOST PROBABLE | MOST PROBABLE | WET SUBS. | DRY SUBS. | REAS. MAX. | REAS. MIN. | 25 YR. AVG. |
|--------------------------------------|-----------------|---------------|---------------|-----------|-----------|------------|------------|-------------|
| | | (1000AF) | (% AVG.) | (1000AF) | (1000AF) | (1000AF) | (1000AF) | (1000AF) |
| | | | | | | | | |
| EAST WALKER RIVER nr Bridgeport 2 | APR-AUG | .50 | 65 | | | 83 | 17.0 | 77 |
| WEST WALKER RIVER near Coleville, Ca | APR-JUL | 110 | 71 | 115 | 105 | 144 | 76 | 155 |
| WALKER LAKE RISE (LOW 2/1/87) | LOW-HIG | -0.2 | 0 | | | | | 0.0 |

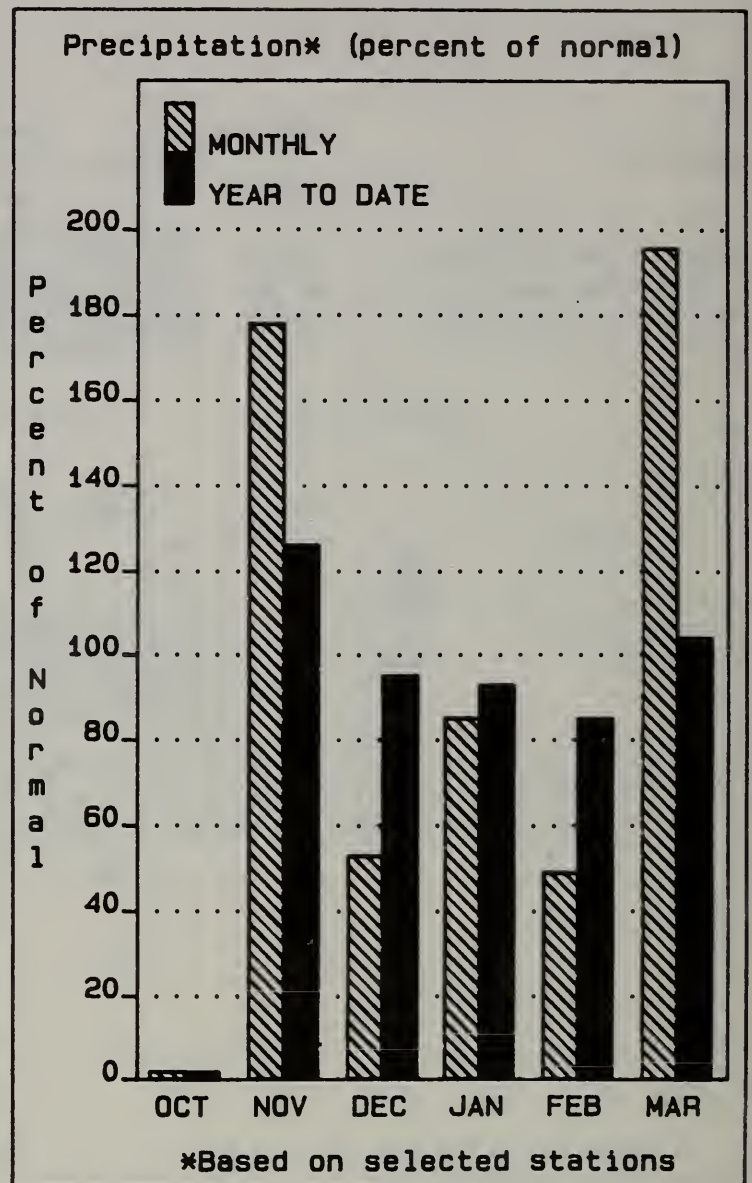
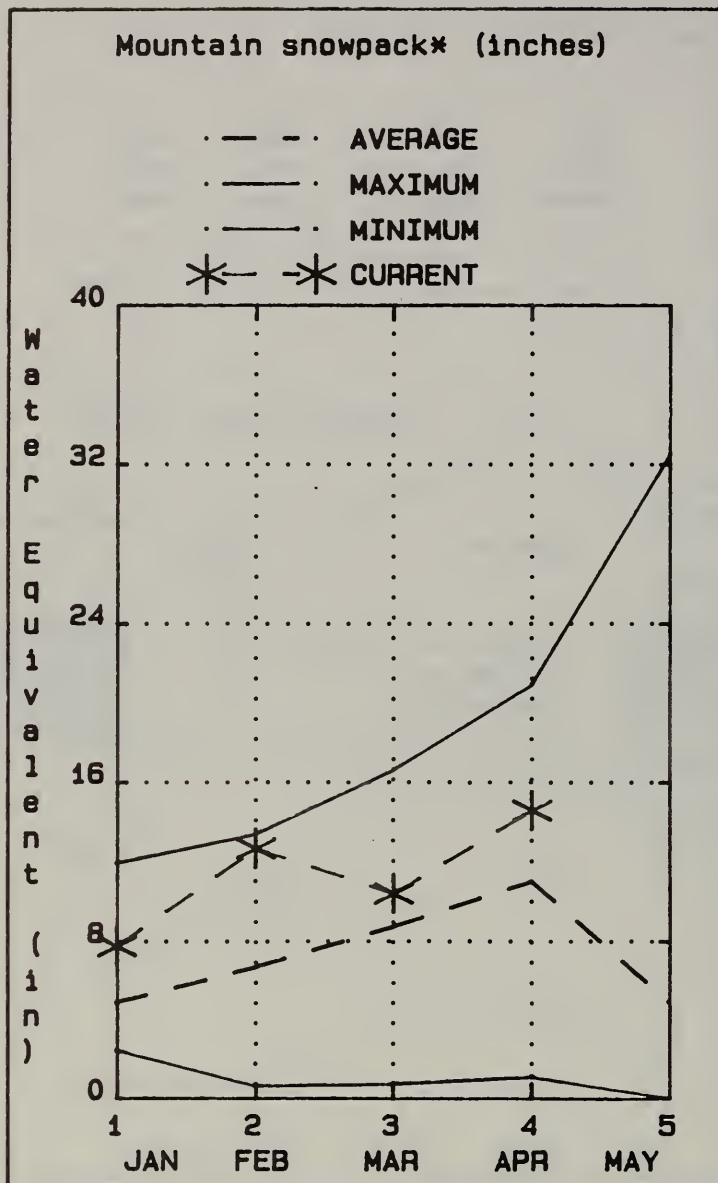
| RESERVOIR STORAGE | | | | | (1000AF) | WATERSHED SNOWPACK ANALYSIS | | | |
|----------------------|----------|-----------------------|------|------|---------------------------|-----------------------------|-------------------|---------|--|
| RESERVOIR | USEABLE | ** USEABLE STORAGE ** | | | WATERSHED | NO. | THIS YEAR AS % OF | | |
| | CAPACITY | THIS | LAST | AVG. | | COURSES | ----- | | |
| | | YEAR | YEAR | | | AVG'D | LAST YR. | AVERAGE | |
| BRIDGEPORT RESERVOIR | 42.5 | 14.2 | 17.8 | 34.2 | E. WALKER Rv. nr Bridgepo | 7 | 166 | 69 | |
| TOPAZ RESERVOIR | 59.4 | 16.7 | 18.6 | 39.6 | W. WALKER Rv. nr Colevill | 8 | 186 | 73 | |
| | | | | | WALKER LAKE RISE | 10 | 173 | 70 | |

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

NORTHERN GREAT BASIN



Snowpack conditions in the Northern Great Basin are well above average. The basin currently has 134% of the April 1 average and 416% of the water content present last year. Snow water content in the Bidwell Creek Watershed is about 124% of average. The Quinn River Watershed is about 141% of average. March precipitation for the Northern Great Basin was 196% of average and 498% of last year. Precipitation since October 1, 1988 is 104% of average and 171% of last year. Streamflows in the Northern Great Basin are expected to be above normal to well above normal. Bidwell Creek near Fort Bidwell is expected to flow at 129% of normal or 15,500 acre feet during the April-July forecast period. The Quinn River near McDermitt is forecast at 138% of average or 22,000 acre feet during the April-July forecast period.

NORTHERN GREAT BASIN

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST PERIOD | MOST PROBABLE | MOST PROBABLE | WET SUBS. | DRY SUBS. | REAS. MAX. | REAS. MIN. | 25 YR. AVG. |
|----------------------------------|-----------------|---------------|---------------|-----------|-----------|------------|------------|-------------|
| | | (1000AF) | (% AVG.) | (1000AF) | (1000AF) | (1000AF) | (1000AF) | (1000AF) |
| BIDWELL CREEK nr Fort Bidwell | APR-JUL | 15.5 | 129 | | | 20 | 10.6 | 12.0 |
| DEEP CREEK nr Cedarville, Ca | APR-JUL | 4.2 | 117 | | | 5.7 | 2.7 | 3.6 |
| EAGLE CREEK nr Eagleville, Ca | APR-JUL | 6.0 | 140 | | | 7.8 | 4.2 | 4.3 |
| MILL CREEK nr Cedarville, Ca | APR-JUL | 6.0 | 146 | | | 7.7 | 4.3 | 4.1 |
| QUINN RIVER nr McDermitt, Nv | APR-JUL | 22 | 138 | | | 26 | 17.7 | 16.0 |
| E. FORK QUINN RIVER nr McDermitt | APR-JUL | 14.0 | 135 | | | 16.8 | 11.2 | 10.4 |
| MCDERMITT CREEK nr McDermitt | APR-JUL | 21 | 146 | | | 25 | 17.1 | 14.4 |

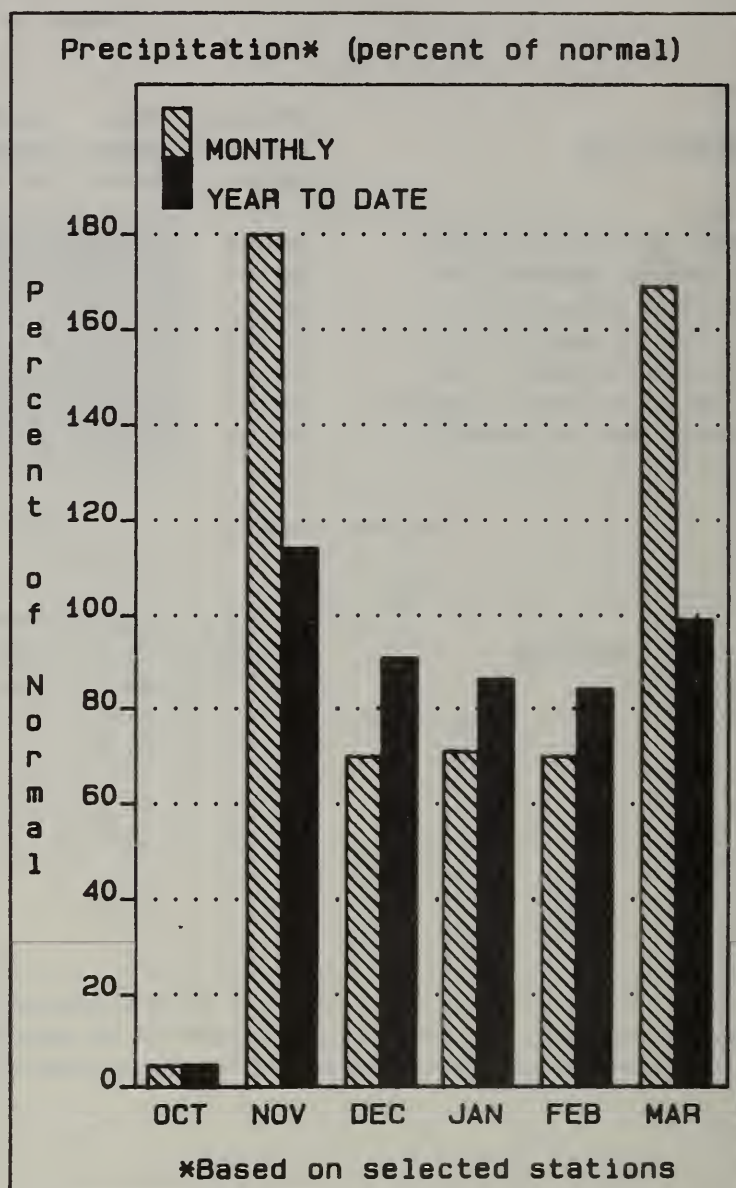
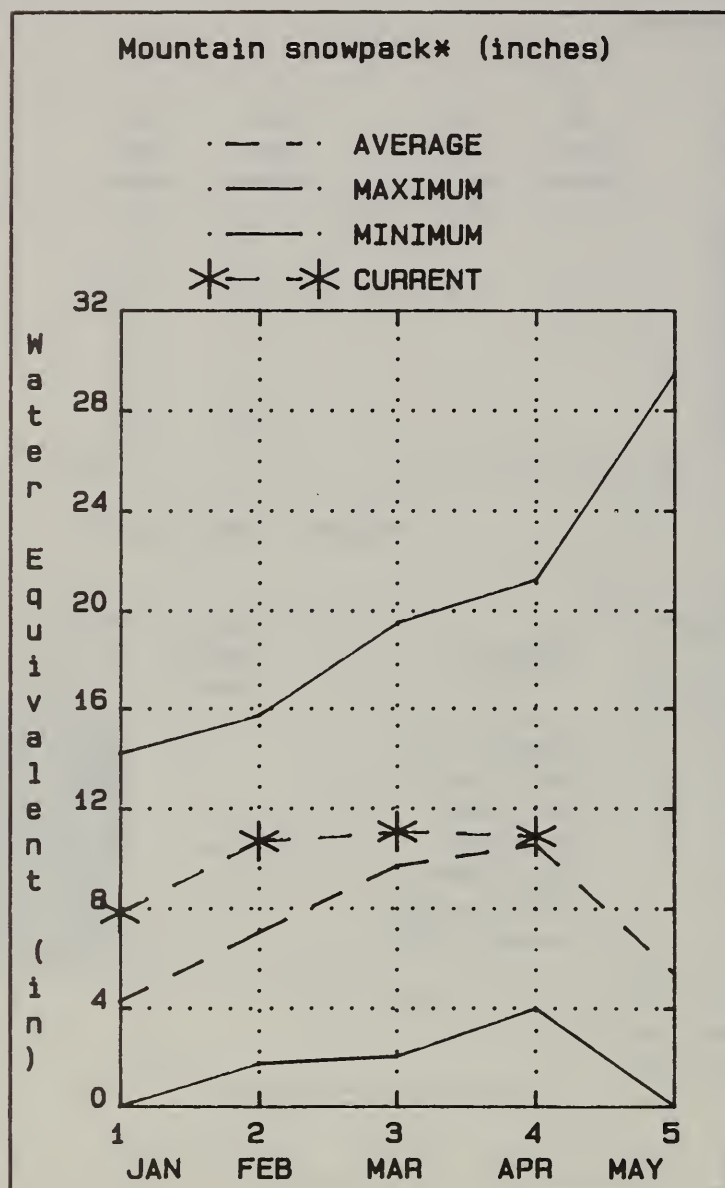
| RESERVOIR STORAGE | | (1000AF) | | WATERSHED SNOWPACK ANALYSIS | | | |
|-------------------|------------------|-----------------------|-----------|-----------------------------|-----------------|----------------------|-------------------|
| RESERVOIR | USEABLE CAPACITY | ** USEABLE STORAGE ** | | | WATERSHED | NO. COURSES AVG'D | THIS YEAR AS % OF |
| | | THIS YEAR | LAST YEAR | AVG. | | | LAST YR. AVERAGE |
| | | | | | BIDWELL | 2 | 282 124 |
| | | | | | MILL CREEK | 1 | 204 131 |
| | | | | | DEEP CREEK | 1 | 204 131 |
| | | | | | EAGLE CREEK | 1 | 204 131 |
| | | | | | QUINN RIVER | 2 | 0 141 |
| | | | | | E. FORK QUINN | 2 | 0 141 |
| | | | | | MCDERMITT CREEK | 2 | 0 141 |

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

UPPER HUMBOLDT RIVER BASIN



Snowpack conditions in the Upper Humboldt River Basin dropped slightly during March but are still near normal. The basin currently has 103% of the April 1 average and 195% of the water content present last year. March precipitation for the Upper Humboldt River Basin was 169% of average and 420% of last year. Precipitation since October 1, 1988 is 99% of average and 135% of last year. Streamflows in the Upper Humboldt River Basin are expected to be near normal. The Humboldt River at Palisades is expected to flow at 108% of average or 290,000 acre feet during the April-July forecast period. The flow of the Humboldt River at the Palisades during March was 83,220 acre feet.

UPPER HUMBOLDT RIVER BASIN

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST | MOST | MOST | WET | DRY | REAS. | REAS. | 25 YR. |
|----------------------------------|----------|----------------------|----------------------|-------------------|-------------------|------------------|------------------|------------------|
| | PERIOD | PROBABLE (1000AF) | PROBABLE (% AVG.) | SUBS. (1000AF) | SUBS. (1000AF) | MAX. (1000AF) | MIN. (1000AF) | AVG. (1000AF) |
| MARY'S RIVER nr Deeth | APR-JUL | 43 | 103 | 45 | 41 | 59 | 27 | 42 |
| LAMOILLE CREEK nr Lamoille | APR-JUL | 31 | 105 | 33 | 29 | 41 | 21 | 30 |
| NF HUMBOLDT RIVER at Devils Gate | APR-JUL | 40 | 102 | 45 | 35 | 63 | 17.3 | 39 |
| HUMBOLDT RIVER nr Elko | APR-JUL | 168 | 109 | 179 | 157 | 270 | 68 | 154 |
| S FORK HUMBOLDT RIVER at Dixie | APR-JUL | 80 | 91 | 91 | 69 | 130 | 30 | 88 |
| HUMBOLDT RIVER near Carlin | APR-JUL | 245 | 103 | 270 | 225 | 400 | 91 | 238 |
| HUMBOLDT RIVER at Palisades | APR-JUL | 290 | 108 | 360 | 220 | 465 | 115 | 269 |

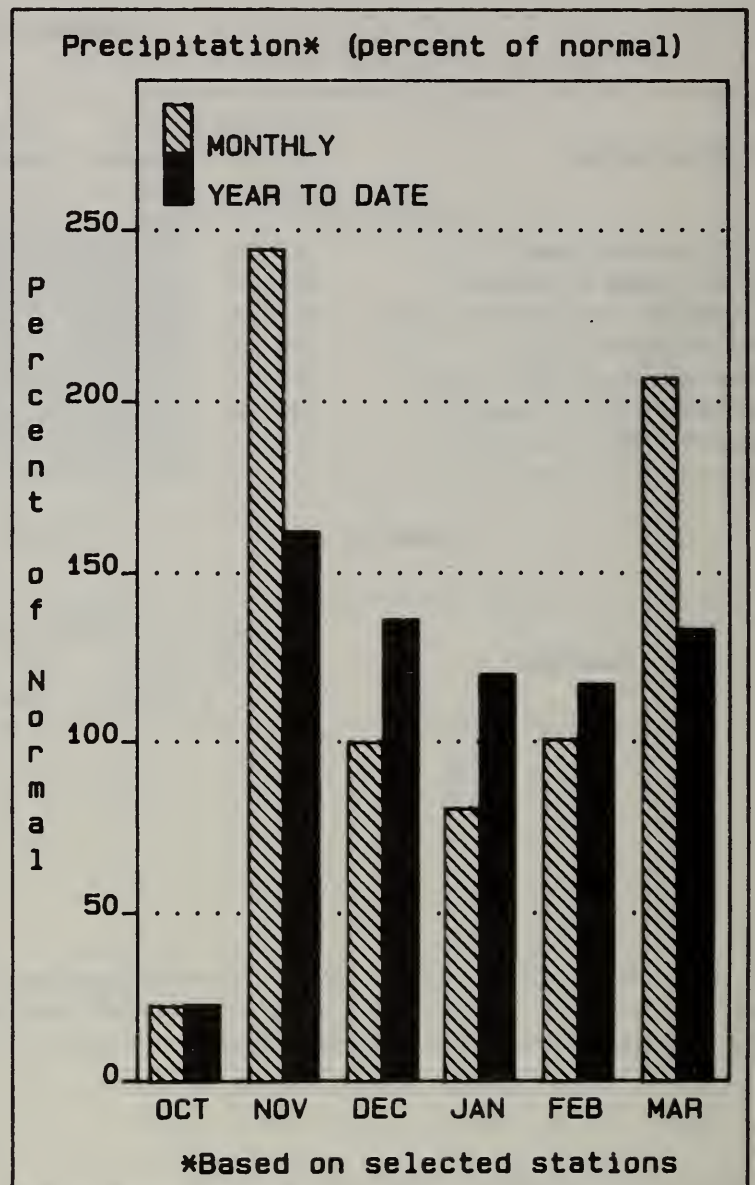
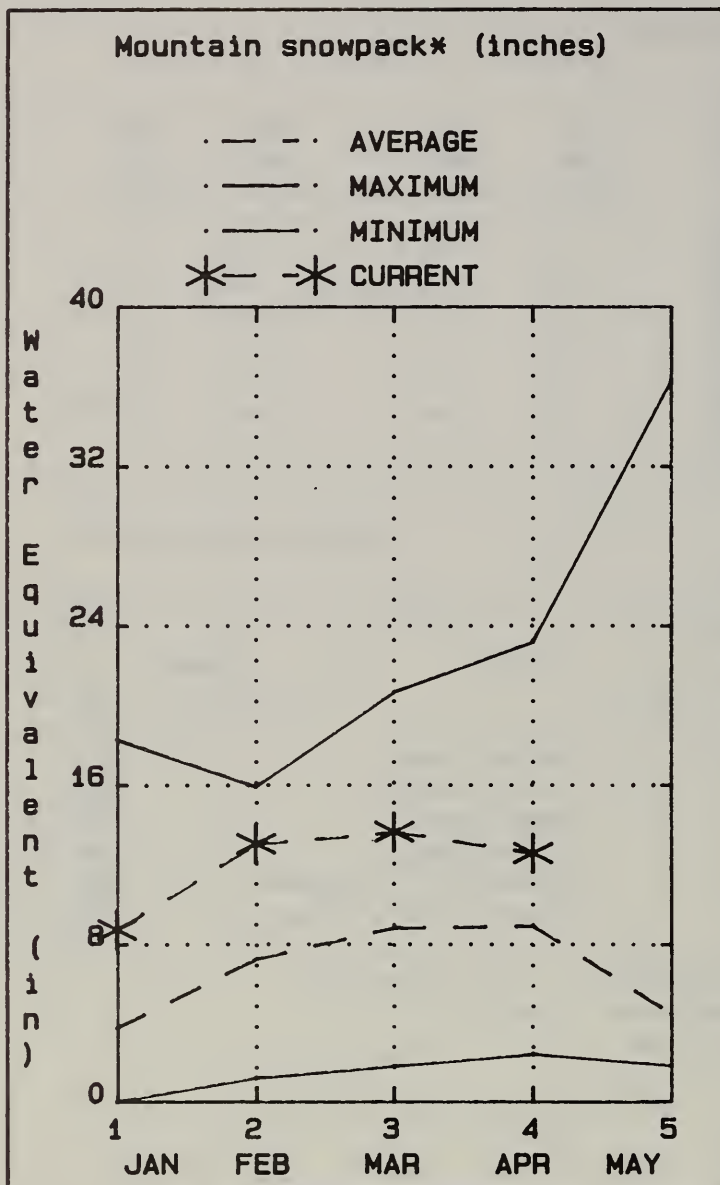
| RESERVOIR STORAGE | | (1000AF) | WATERSHED SNOWPACK ANALYSIS | | | |
|-------------------|----------|-----------------------|-----------------------------|---------------------------|---------|-------------------|
| RESERVOIR | USEABLE | ** USEABLE STORAGE ** | | WATERSHED | NO. | THIS YEAR AS % OF |
| | CAPACITY | THIS | LAST | | COURSES | ----- |
| | | YEAR | YEAR | | AVG' D | LAST YR. AVERAGE |
| | | | | LAMOILLE CREEK | 3 | 193 128 |
| | | | | S. FORK HUMBOLDT | 9 | 174 106 |
| | | | | MARY'S RIVER | 0 | 0 0 |
| | | | | N. FORK HUMBOLDT | 3 | 505 78 |
| | | | | HUMBOLDT Rv. at Palisades | 8 | 181 113 |
| | | | | HUMBOLDT RIVER at Comus | 8 | 181 113 |

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

LOWER HUMBOLDT RIVER BASIN



Snowpack conditions in the Lower Humboldt River Basin decreased slightly during March but remain well above average for the fourth month in a row. The basin currently has 141% of the April 1 average and 300% of the water content present last year. March precipitation for the Lower Humboldt River Basin was 207% of average and 539% of last year. Precipitation since October 1, 1988 is 133% of average and 164% of last year. Reservoir storage on the last day of March was 33% of average. Total storage in Rye Patch Reservoir was 40,560 acre feet. Streamflows in the Lower Humboldt River are expected to be near to well above normal except for the Reese River near Lone, NV which is expected to produce below average flows. The Humboldt River at Comus is expected to flow at 105% of average or 240,000 acre feet during the April-July forecast period. The Little Humboldt River near Paradise Valley is expected to flow at 128% of average or 16,000 acre feet during the April-July forecast period.

LOWER HUMBOLDT RIVER BASIN

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST | MOST | MOST | WET | DRY | REAS. | REAS. | 25 YR. |
|--------------------------------------|----------|----------------------|----------------------|-------------------|-------------------|------------------|------------------|------------------|
| | PERIOD | PROBABLE (1000AF) | PROBABLE (% AVG.) | SUBS. (1000AF) | SUBS. (1000AF) | MAX. (1000AF) | MIN. (1000AF) | AVG. (1000AF) |
| REESE RIVER nr Ione Nv | APR-JUL | 6.0 | 77 | 5.8 | 6.2 | 10.4 | 1.6 | 7.8 |
| ROCK CREEK nr Battle Mtn. | APR-JUL | 28 | 127 | 29 | 28 | 41 | 15.5 | 22 |
| HUMBOLDT RIVER at Comus | APR-JUL | 240 | 105 | 285 | 200 | 450 | 128 | 229 |
| L. HUMBOLDT RIVER nr Paradise Valley | APR-JUL | 16.0 | 128 | 16.7 | 16.0 | 19.4 | 12.6 | 12.5 |
| MARTIN CREEK nr Paradise Nv | APR-JUL | 21 | 111 | 23 | 20 | 26 | 15.9 | 19.0 |

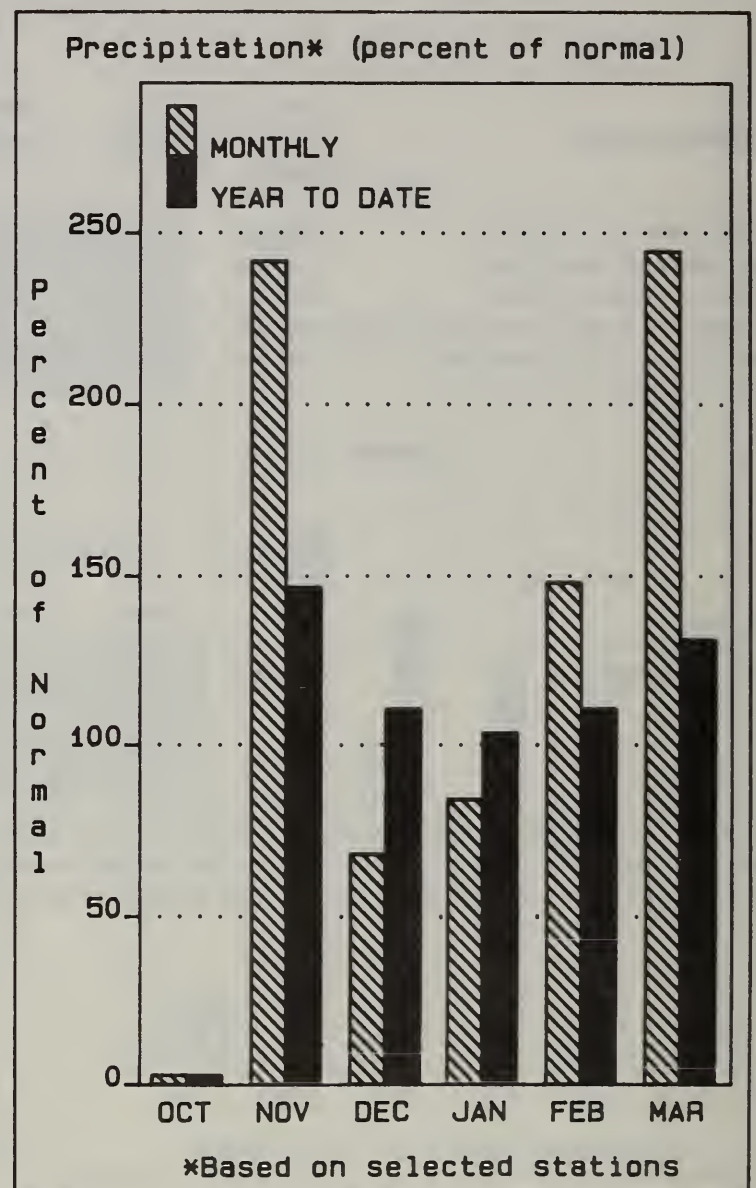
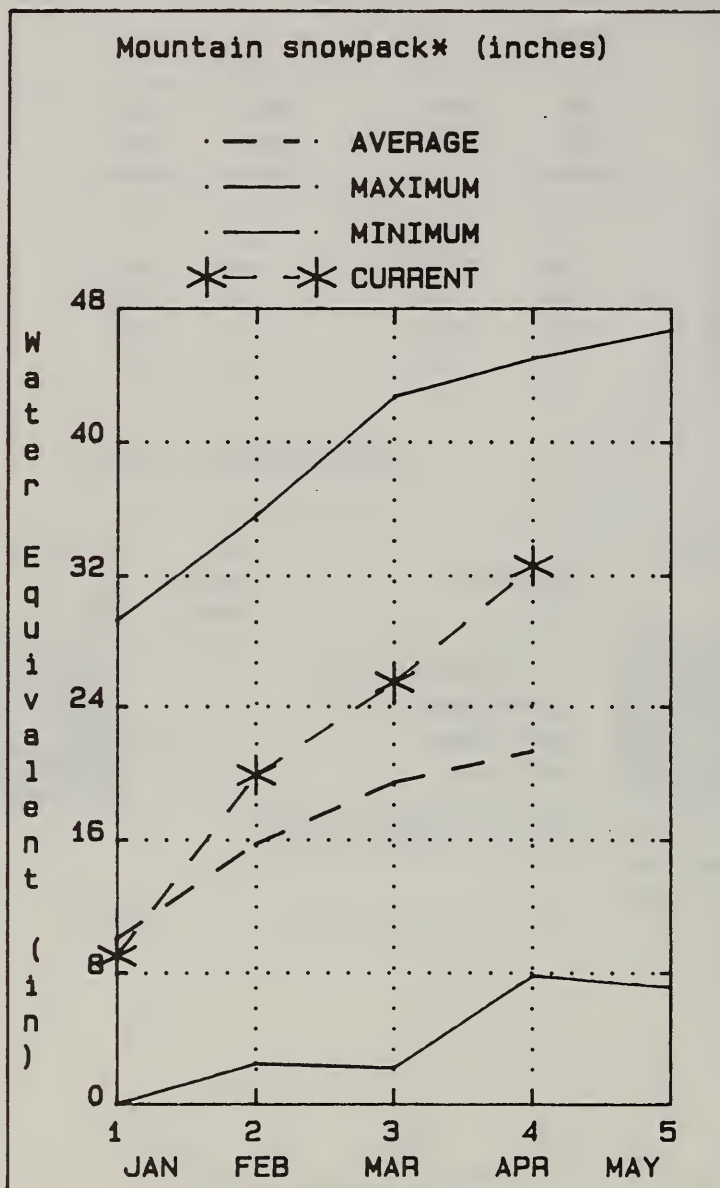
| RESERVOIR STORAGE | | (1000AF) | | | WATERSHED SNOWPACK ANALYSIS | | | |
|---------------------|---------------------|-----------------------|--------------|-------|-----------------------------|-------------------------|-------------------|---------|
| RESERVOIR | USEABLE CAPACITY | ** USEABLE STORAGE ** | | | WATERSHED | NO. COURSES AVG'D | THIS YEAR AS % OF | |
| | | THIS YEAR | LAST YEAR | AVG. | | | LAST YR. | AVERAGE |
| RYE PATCH RESERVOIR | 194.3 | 40.6 | 81.4 | 122.5 | LITTLE HUMBOLDT RIVER | 3 | 457 | 151 |
| | | | | | MARTIN CREEK | 4 | 471 | 148 |
| | | | | | REESE RIVER | 4 | 89 | 70 |
| | | | | | ROCK CREEK | 3 | 1079 | 116 |

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

CLOVER VALLEY & FRANKLIN RIVER BASIN



Snowpack conditions in the Clover Valley & Franklin River Basin improved during March and remain well above average for the second month in a row. The basin currently has 153% of the April 1 average and 303% of the water content present last year. March precipitation for the Clover Valley & Franklin River Basin was 245% of average and 426% of last year. Precipitation since October 1, 1988 is 131% of average and 159% of last year. Streamflows in the Clover Valley & Franklin River Basin are expected to be well above average. The Franklin River near Arthur is expected to flow at 138% of average or 9500 acre feet during the April-July forecast period.

CLOVER VALLEY & FRANKLIN RIVER BASIN

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST PERIOD | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVG.) | WET SUBS. (1000AF) | DRY SUBS. (1000AF) | REAS. MAX. (1000AF) | REAS. MIN. (1000AF) | 25 YR. AVG. (1000AF) |
|--------------------------|--------------------|------------------------------|------------------------------|--------------------------|--------------------------|---------------------------|---------------------------|----------------------------|
| FRANKLIN RIVER nr Arthur | APR-JUL | 9.5 | 138 | 9.6 | 9.4 | 13.4 | 5.6 | 6.9 |

RESERVOIR STORAGE

(1000AF)

WATERSHED SNOWPACK ANALYSIS

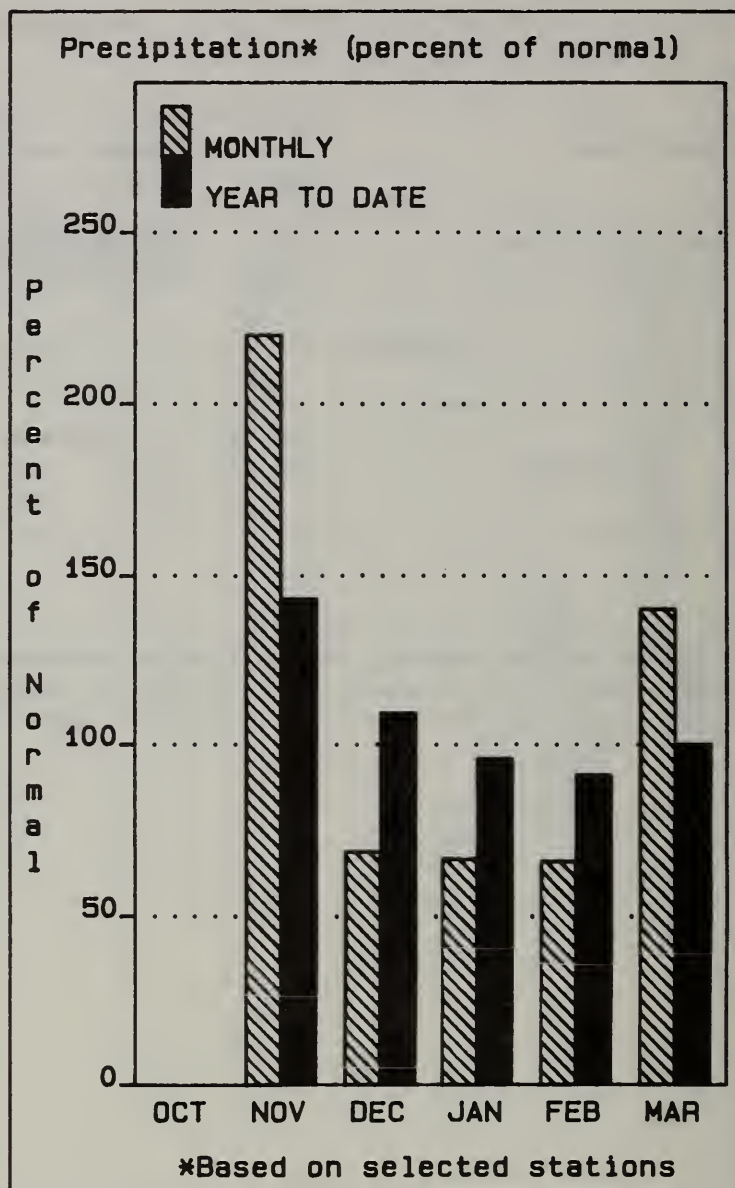
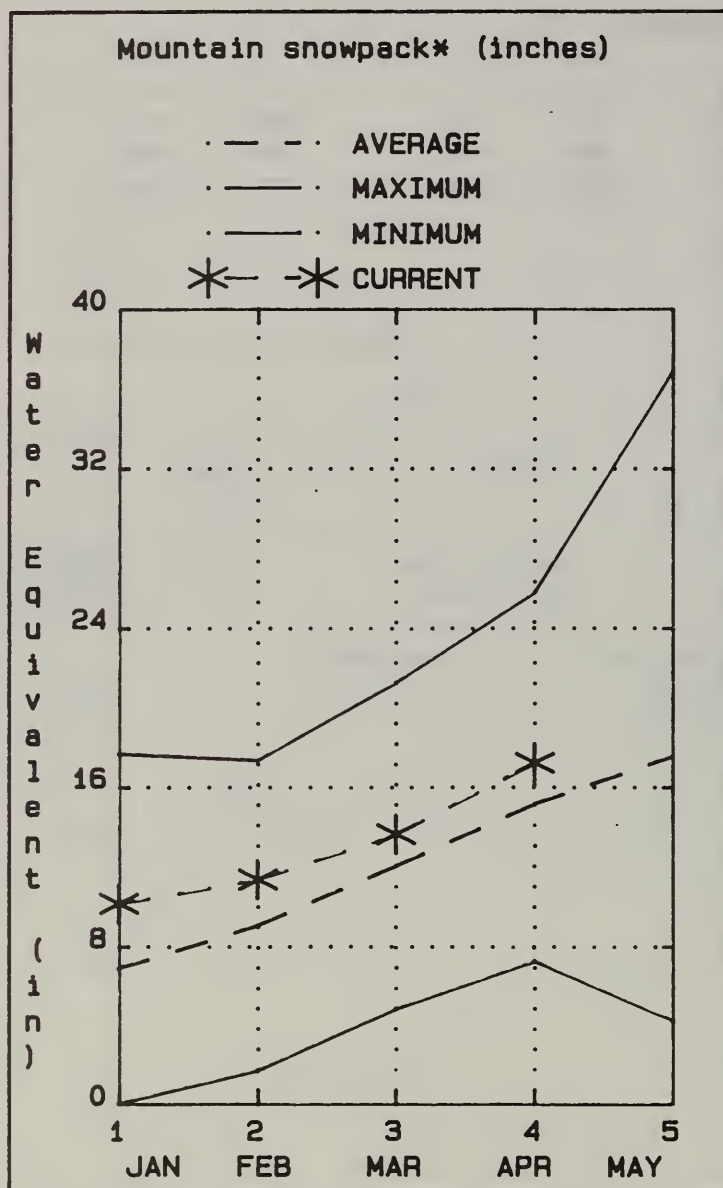
| RESERVOIR | USEABLE CAPACITY | ** USEABLE STORAGE ** THIS YEAR | LAST YEAR | AVG. | WATERSHED | NO. COURSES AVG'D | THIS YEAR AS % OF LAST YR. | % OF AVERAGE |
|-----------|---------------------|---------------------------------------|--------------|------|----------------|-------------------------|-------------------------------|-----------------|
| | | | | | FRANKLIN RIVER | 1 | 471 | 193 |
| | | | | | CLOVER VALLEY | 1 | 236 | 131 |

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

SNAKE RIVER BASIN



Snowpack conditions in the Snake River Basin are above normal. The basin currently has 113% of the April 1 average and 125% of the water content present last year. March precipitation for the Snake River Basin was 140% of average and 130% of last year. Precipitation since October 1, 1988 is 100% of average and 130% of last year. Streamflows in the Snake River Basin are expected to be above average. Salmon Falls Creek near San Jacinto is expected to flow at 118% of average or 114,000 acre feet during the March-July forecast period.

SNAKE RIVER BASIN

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST PERIOD | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVG.) | WET SUBS. (1000AF) | DRY SUBS. (1000AF) | REAS. MAX. (1000AF) | REAS. MIN. (1000AF) | 25 YR. AVG. (1000AF) |
|--------------------------------|-----------------|------------------------|------------------------|--------------------|--------------------|---------------------|---------------------|----------------------|
| SALMON FALLS CK nr San Jacinto | MAR-JUL | 114 | 118 | 122 | 106 | 149 | 79 | 97 |

RESERVOIR STORAGE

(1000AF)

WATERSHED SNOWPACK ANALYSIS

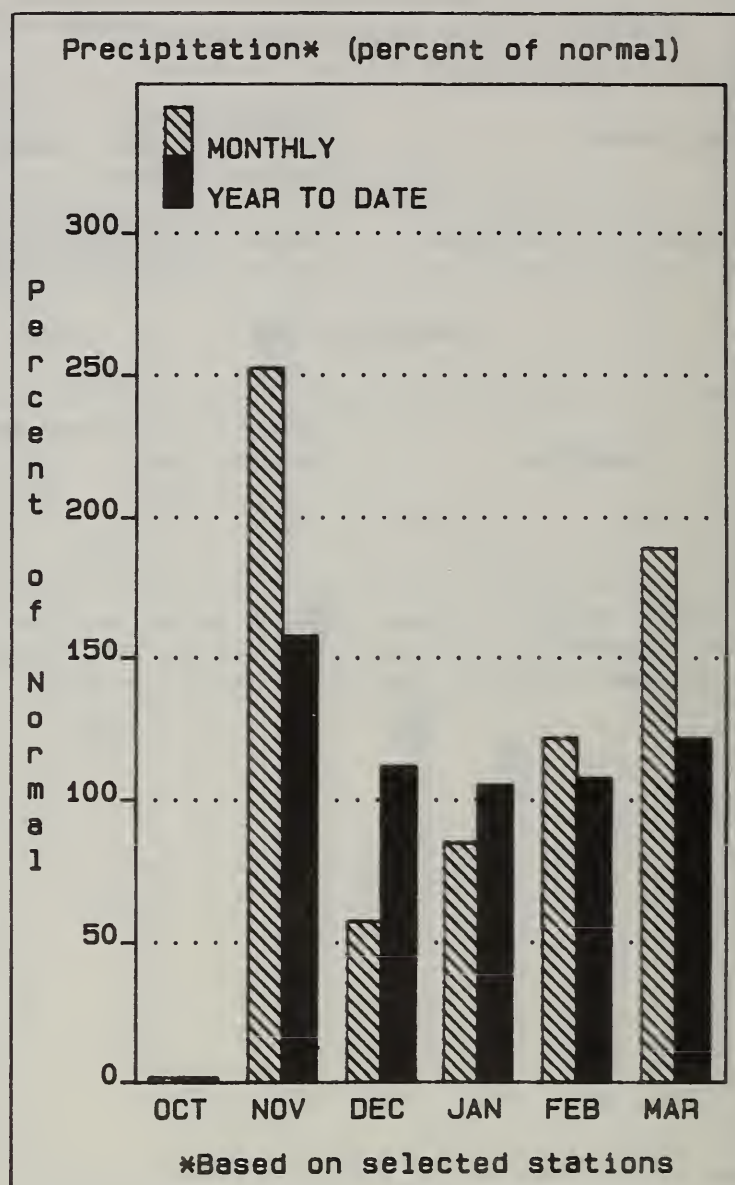
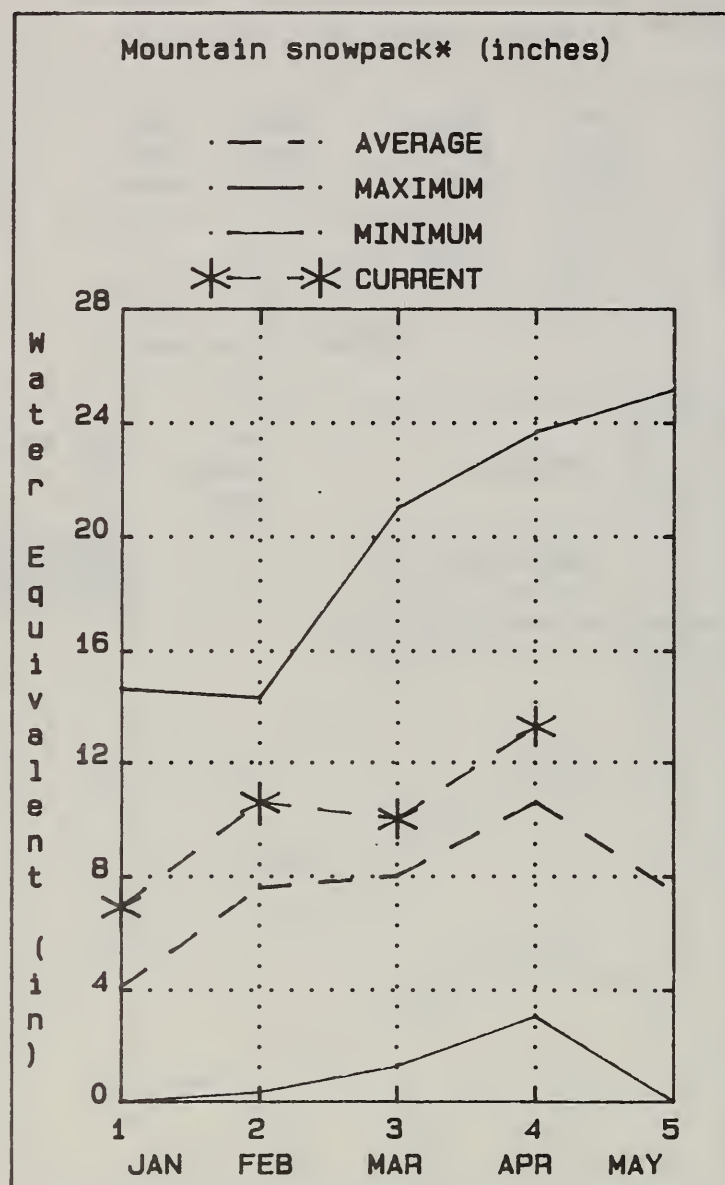
| RESERVOIR | USEABLE CAPACITY | ** USEABLE STORAGE ** | | | WATERSHED | NO. COURSES | THIS YEAR AS % OF LAST YR. AVERAGE | |
|-----------|------------------|-----------------------|-----------|------|--------------------|-------------|------------------------------------|-----|
| | | THIS YEAR | LAST YEAR | AVG. | | AVG'D | | |
| | | | | | SALMON FALLS CREEK | 4 | 129 | 112 |

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

OWYHEE RIVER BASIN



Snowpack conditions in the Owyhee River Basin are above average. The basin currently has 125% of the April 1 average and 210% of the water content present last year. March precipitation for the Owyhee River Basin was 189% of average and 289% of last year. Precipitation since October 1, 1988 is 122% of average and 174% of last year. Reservoir storage on the last day of March was 96% of average. Total storage for Wildhorse Reservoir was 28,240 acre feet. Streamflows in the Owyhee River Basin are expected to be above average. The Owyhee River near Owyhee is expected to flow at 113% of average or 97,000 acre feet during the April-July forecast period.

OWYHEE RIVER BASIN

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST PERIOD | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVG.) | WET SUBS. (1000AF) | DRY SUBS. (1000AF) | REAS. MAX. (1000AF) | REAS. MIN. (1000AF) | 25 YR. AVG. (1000AF) |
|------------------------|-----------------|---------------------------|---------------------------|-----------------------|-----------------------|------------------------|------------------------|-------------------------|
| OWYHEE nr Gold Ck (2) | APR-JUL | 32 | 114 | 37 | 27 | 43 | 21 | 28 |
| OWYHEE nr Owyhee (2) | APR-JUL | 97 | 113 | 112 | 82 | 132 | 62 | 86 |
| SF OWYHEE nr Whiterock | APR-JUL | 93 | 112 | 98 | 93 | 127 | 59 | 83 |

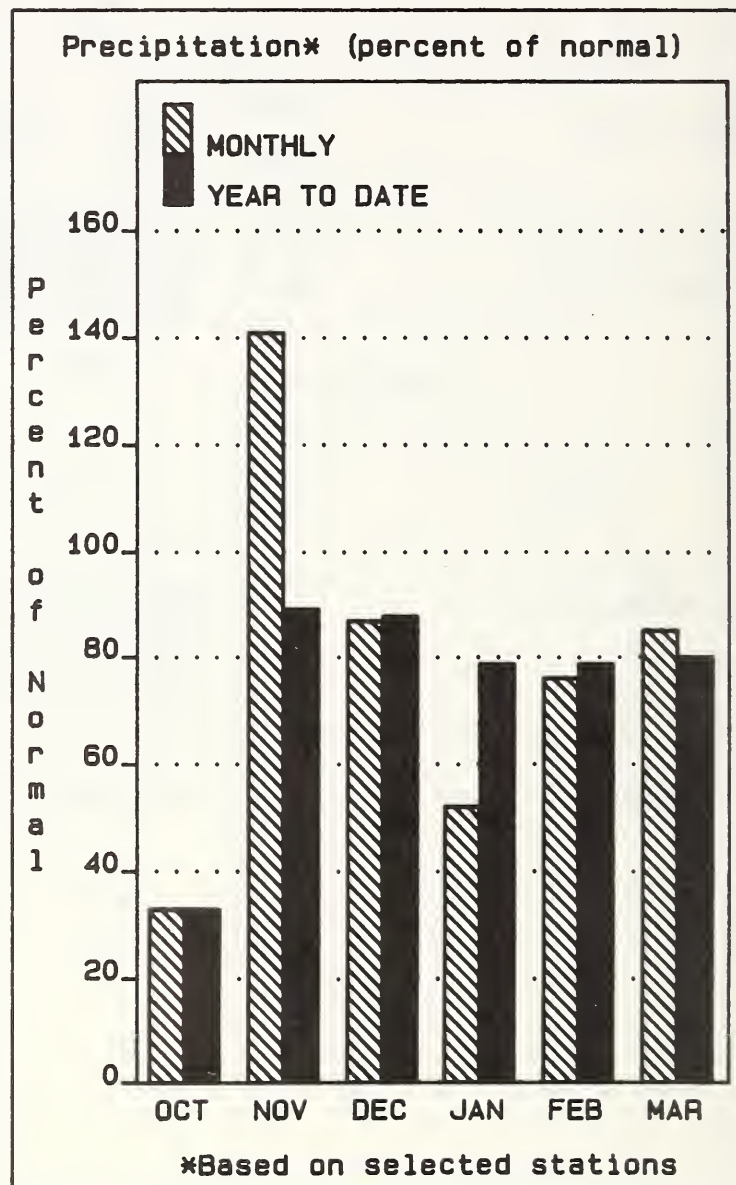
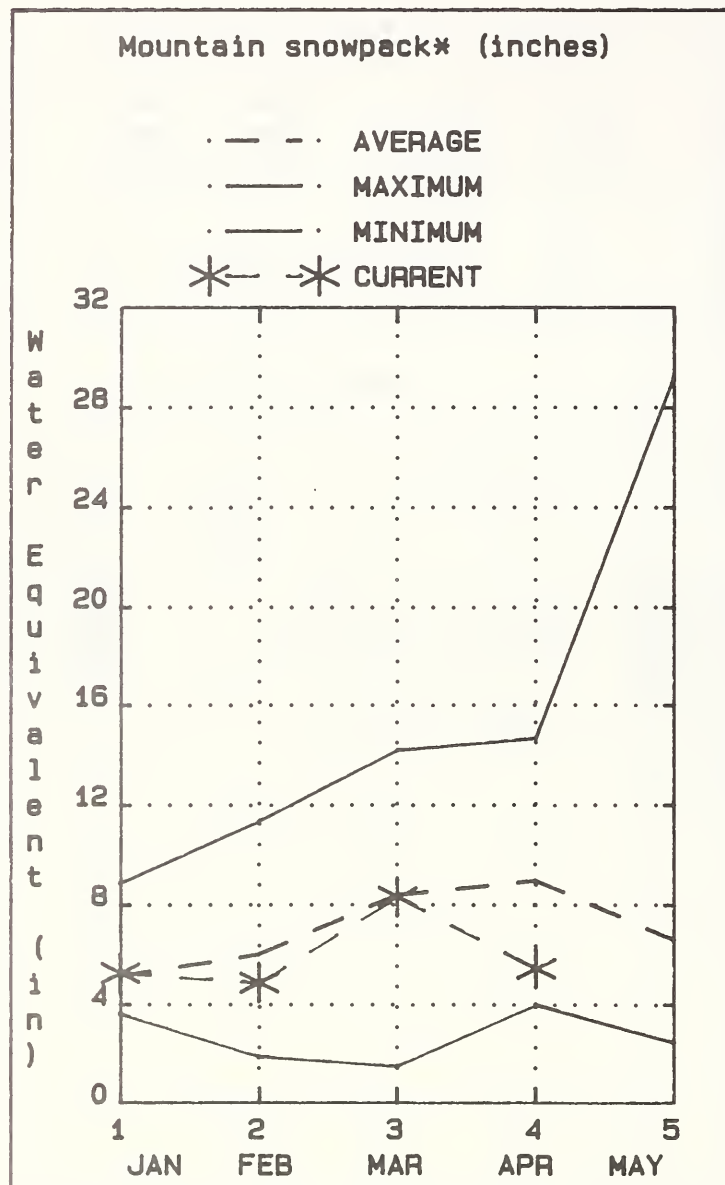
| RESERVOIR STORAGE (1000AF) | | | | WATERSHED SNOWPACK ANALYSIS | | | |
|-------------------------------|------------------|-----------------------|-----------|-----------------------------|--------------------------|----------------------|---------------------------------------|
| RESERVOIR | USEABLE CAPACITY | ** USEABLE STORAGE ** | | | WATERSHED | NO. COURSES AVG'D | THIS YEAR AS % OF LAST YR. AVERAGE |
| | | THIS YEAR | LAST YEAR | AVG. | | | |
| WILDHORSE RESERVOIR | 71.5 | 28.2 | 19.2 | 29.4 | OWYHEE RIVER nr Owyhee | 5 | 191 125 |
| | | | | | OWYHEE Rv. nr Gold Creek | 1 | 225 150 |
| | | | | | S. FORK OWYHEE RIVER | 5 | 191 125 |

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

EASTERN NEVADA BASIN



Snowpack conditions in the Eastern Nevada Basin decreased significantly during March and are presently well below average. The basin currently has 60% of the April 1 average and 86% of the water content present last year. March precipitation for the Eastern Nevada Basin was 85% of average and 292% of last year. Precipitation since October 1, 1988 is 80% of average and 91% of last year. Streamflows in the Eastern Nevada Basin are expected to be well below average to near average. Steptoe Creek near Ely is expected to flow at 63% or 2000 acre feet during the April-July forecast period.

EASTERN NEVADA

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST PERIOD | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVG.) | WET SUBS. (1000AF) | DRY SUBS. (1000AF) | REAS. MAX. (1000AF) | REAS. MIN. (1000AF) | 25 YR. AVG. (1000AF) |
|------------------------------|--------------------|------------------------------|------------------------------|--------------------------|--------------------------|---------------------------|---------------------------|----------------------------|
| KINGSTON CREEK nr Austin, Nv | APR-JUL | 4.2 | 100 | | | 6.6 | 1.8 | 4.2 |
| STEPTOE CREEK nr Ely | APR-JUL | 2.0 | 63 | 2.2 | 1.8 | 3.8 | 1.1 | 3.2 |

RESERVOIR STORAGE

(1000AF)

WATERSHED SNOWPACK ANALYSIS

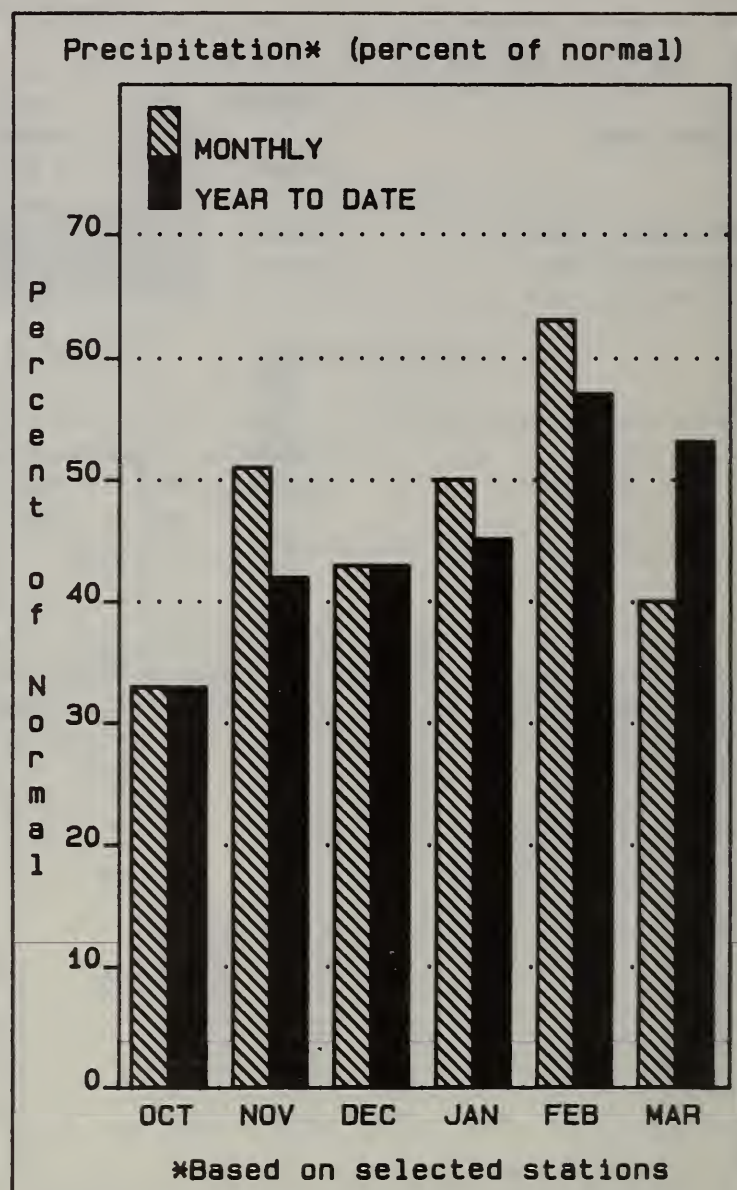
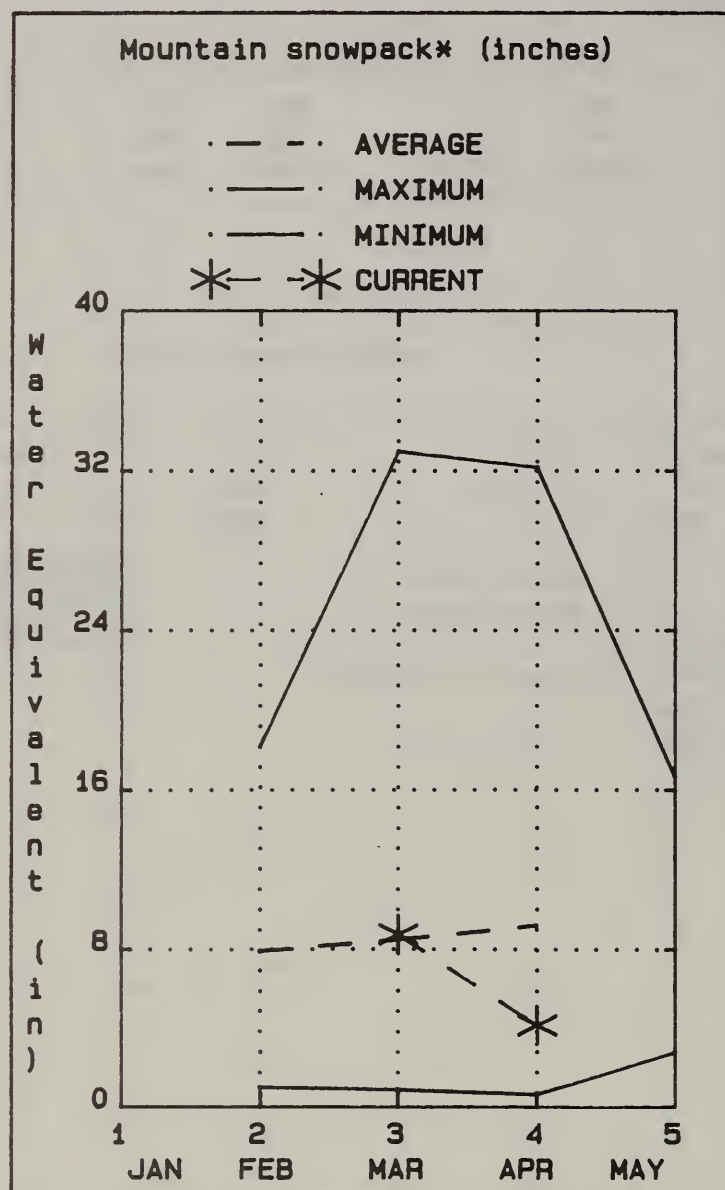
| RESERVOIR | USEABLE CAPACITY | ** USEABLE STORAGE ** | | | WATERSHED | NO. COURSES AVG'D | THIS YEAR AS % OF LAST YR. AVERAGE | |
|-----------|---------------------|-----------------------|--------------|------|----------------|-------------------------|---------------------------------------|----|
| | | THIS YEAR | LAST YEAR | AVG. | | | | |
| | | | | | KINGSTON CREEK | 0 | 0 | 0 |
| | | | | | STEPTOE VALLEY | 2 | 89 | 73 |

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

LOWER COLORADO RIVER BASIN



Snowpack conditions in the Lower Colorado River Basin decreased significantly during March and are presently well below normal. The basin currently has 45% of the April 1 average and 134% of the water content present last year. Snow water content in the Virgin River Watershed also decreased from last month. The watershed currently has 47% of the March 1 average and 78% of the water content present last year. April precipitation for the Lower Colorado River Basin was 40% of average and 1400% of last year. Precipitation since October 1, 1988 is 53% of average and 82% of last year. Reservoir storage on the last day of March was 116% of average. Total storage for Lake Mohave and Lake Mead was 24,606,500 acre feet. Streamflows in the Lower Colorado River Basin are expected to be below average to well below average. The Colorado River inflow to Lake Powell is expected to be 6,500,000 acre feet during the April-July forecast period.

LOWER COLORADO RIVER BASIN

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST | MOST | MOST | WET | DRY | REAS. | REAS. | 25 YR. |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | PROBABLE | PROBABLE | SUBS. | SUBS. | MAX. | MIN. | AVG. |
| | PERIOD | (1000AF) | (% AVG.) | (1000AF) | (1000AF) | (1000AF) | (1000AF) | (1000AF) |
| COLORADO RIVER inf to Lake Powell 2 | APR-JUL | 6500 | 80 | 7550 | 5450 | 8600 | 4720 | 8086 |
| VIRGIN near Hurricane | APR-JUN | 35 | 51 | | | 58 | 13.2 | 68 |
| VIRGIN RIVER near Littlefield | APR-JUN | 30 | 45 | | | 49 | 17.9 | 67 |

| RESERVOIR STORAGE | | | | | WATERSHED SNOWPACK ANALYSIS | | | |
|-------------------|----------|-----------------------|---------|---------|-----------------------------|---------|-------------------|---------|
| (1000AF) | | | | | | | | |
| RESERVOIR | USEABLE | ** USEABLE STORAGE ** | | | WATERSHED | NO. | THIS YEAR AS % OF | |
| | CAPACITY | THIS | LAST | | | COURSES | ----- | |
| | | YEAR | YEAR | AVG. | | AVG'D | LAST YR. | AVERAGE |
| LAKE MOHAVE | 1810.0 | 1649.5 | 1687.3 | 1677.0 | VIRGIN Rv. at Littlefield | 4 | 78 | 47 |
| LAKE MEAD | 26159.0 | 22957.0 | 24509.0 | 19473.0 | VIRGIN Rv. at Hurricane, | 4 | 78 | 47 |

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

SNOW DATA MEASUREMENTS

| SNOW COURSE | ELEVATION | DATE | SNOW DEPTH | WATER CONTENT | LAST YEAR | AVERAGE 1961-85 |
|-----------------------|-----------|---------|---------------|------------------|--------------|--------------------|
| ----- | | | | | | |
| LAKE TAHOE BASIN | | | | | | |
| ECHO PEAK (CA) | 7800 | 3/27/89 | 96 | 45.2 | 12.2 | 39.1 |
| ECHO SUMMIT (CA) | 7450 | 3/31/89 | 69 | 30.7 | 9.6 | 34.4 |
| FALLEN LEAF (CA) | 6300 | 3/29/89 | 0 | .0 | .0 | 3.8 |
| FREEL BENCH (CA) | 7300 | 3/27/89 | 17 | 7.0 | .0 | 11.0 |
| GLENBROOK #2 | 6900 | 4/03/89 | 28 | 10.4 | 2.9 | 11.9 |
| HAGANS MEADOW (CA) | 8000 | 3/27/89 | 45 | 18.4 | .0 | 18.1 |
| HEAVENLY VALLEY (CA) | 8850 | 3/29/89 | 70 | 27.5 | 8.8 | 28.4 |
| LAKE LUCILLE (CA) | 8200 | 3/31/89 | --- | 57.4E | 24.7 | 61.1 |
| MARLETTE LAKE | 8000 | 3/27/89 | 65 | 24.7 | 5.8 | 23.2 |
| RICHARDSONS #2 (CA) | 6500 | 4/03/89 | 33 | 13.8 | .0 | 16.1 |
| RUBICON #1 (CA) | 8100 | 3/31/89 | --- | 48.1E | 25.3 | 51.7 |
| RUBICON #2 (CA) | 7500 | 4/01/89 | --- | 29.0E | 8.4 | 30.8 |
| TAHOE CITY CROSS (CA) | 6750 | 3/27/89 | 35 | 17.6 | .0 | 19.9 |
| TRUCKEE, UPPER (CA) | 6400 | 3/27/89 | 0 | .0 | .0 | 8.7 |
| WARD CREEK #2 (CA) | 7000 | 3/31/89 | 85 | 38.8 | 12.1 | 41.5 |
| WARD CREEK #3 (CA) | 6750 | 3/27/89 | 91 | 39.2 | 13.2 | 39.5 |
| TRUCKEE RIVER BASIN | | | | | | |
| BIG MEADOWS | 8300 | 3/27/89 | 63 | 24.9 | 8.2 | 30.8 |
| BROCKWAY SUMMIT (CA) | 7100 | 3/27/89 | 35 | 14.9 | .0 | 17.2 |
| CASTLE CREEK (CA) | 7400 | 3/30/89 | 124 | 55.0 | 20.2 | 53.1 |
| DONNER SUMMIT (CA) | 6900 | 3/29/89 | 88 | 41.0 | 7.8 | 39.2 |
| FORDYCE LAKE (CA) | 6500 | 3/29/89 | 81 | 37.1 | 11.8 | 42.1 |
| FURNACE FLAT (CA) | 6700 | 3/29/89 | 101 | 46.0 | 19.5 | 49.6 |
| INDEPENDENCE CAMP CA | 7000 | 3/27/89 | 54 | 23.7 | 3.4 | 23.0 |
| INDEPENDENCE CREEK | 6500 | 3/27/89 | 22 | 10.0 | 1.4 | 13.5 |
| INDEPENDENCE LAKE CA | 8450 | 3/27/89 | 133 | 51.3 | 19.0 | 43.7 |
| LITTLE VALLEY | 6300 | 3/27/89 | 7 | 2.9 | .0 | 6.7 |
| MT. ROSE | 9000 | 3/27/89 | 92 | 39.1 | 15.0 | 36.6 |
| MT. ROSE SKI AREA | 9000 | 3/31/89 | 102 | 41.7 | 16.8 | 44.1 |
| SQUAW VALLEY #2 (CA) | 7500 | 3/31/89 | 108 | 47.6 | -- | 50.8 |
| SQUAW VALLEY G.C., CA | 8200 | 3/31/89 | 122 | 53.6 | 21.5 | 52.3 |
| TAHOE CITY CROSS (CA) | 6750 | 3/27/89 | 35 | 17.6 | .0 | 19.9 |
| TRUCKEE #2 (CA) | 6400 | 3/27/89 | 29 | 12.8 | .0 | 14.6 |
| WEBBER LAKE (CA) | 7000 | 3/27/89 | 87 | 34.4 | 11.0 | 30.2 |
| WEBBER PEAK (CA) | 8000 | 3/27/89 | 122 | 48.8 | 21.0 | 42.6 |

SNOW DATA MEASUREMENTS (CONT)

| SNOW COURSE | ELEVATION | DATE | SNOW DEPTH | WATER CONTENT | LAST YEAR | AVERAGE 1961-85 |
|----------------------|-----------|---------|---------------|------------------|--------------|--------------------|
| ----- | | | | | | |
| CARSON RIVER BASIN | | | | | | |
| BLUE LAKES (CA) | 8000 | 3/29/89 | 78 | 31.3 | 16.8 | 37.2 |
| CARSON PASS, UP (CA) | 8600 | 3/29/89 | 81 | 36.6 | 10.4 | 36.2 |
| CLEAR CREEK | 7300 | 3/28/89 | 24 | 9.2 | -- | 11.5 |
| EBBETTS PASS #2 (CA) | 8700 | 4/04/89 | 81 | 35.6 | 14.7 | 40.2 |
| MONITOR PASS AM(CA) | 8350 | 4/04/89 | 19 | 7.0 | 9.2 | -- |
| POISON FLAT #2 (CA) | 7900 | 3/28/89 | 26 | 10.8 | 4.5 | 18.7 |
| SPRATT CREEK (CA) | 6080 | 4/04/89 | 0 | .0 | .0 | 3.3 |
| WET MEADOWS #2 (CA) | 8100 | 4/04/89 | 83 | 36.5 | 19.5 | 41.6 |
| WALKER RIVER BASIN | | | | | | |
| LEAVITT LAKE (CA) | 9400 | 4/04/89 | 112 | 42.6 | 22.3 | 49.1 |
| LEAVITT MEADOWS (CA) | 7200 | 4/04/89 | 0 | .0 | .0 | 8.5 |
| LOBDELL LAKE (CA) | 9200 | 4/04/89 | 35 | 10.6 | 6.4 | 18.0 |
| SAWMILL RIDGE (CA) | 8750 | 4/04/89 | 31 | 13.4 | 7.6 | 20.1 |
| SONORA PASS (CA) | 8800 | 4/04/89 | 53 | 21.5 | 8.5 | 26.3 |
| TIOGA PASS (CA) | 9900 | 3/28/89 | 62 | 22.2 | 18.4 | 29.0 |
| VIRGINIA LAKES (CA) | 9500 | 4/04/89 | 30 | 10.4 | 7.0 | 18.3 |
| VIRGINIA LAKES RIDGE | 9200 | 4/04/89 | 45 | 15.0 | 9.9 | 19.8 |
| WILLOW FLAT (CA) | 8250 | 4/04/89 | 0 | .0 | .0 | 11.3 |
| NORTHERN GREAT BASIN | | | | | | |
| BARBER CREEK (CA) | 6500 | 3/29/89 | 31 | 13.0 | 1.6 | 11.5 |
| CEDAR PASS (CA) | 7100 | 3/28/89 | 53 | 22.0 | 10.8 | 16.8 |
| DISASTER PEAK | 6500 | 3/30/89 | 42 | 18.5 | .0 | 12.0 |
| FORTY-NINE MOUNTAIN | 6000 | 3/27/89 | 8 | 2.7 | .0 | 3.2 |
| GOVERNMENT CORRALS | 7450 | 3/29/89 | 49 | 17.2 | 8.3 | -- |
| HAYS CANYON | 6400 | 3/28/89 | 0 | .0 | .0 | 2.9 |
| MT. BIDWELL (CA) | 7200 | 3/30/89 | 76 | 31.9 | 16.1 | 24.7 |
| PUEBLO SUMMIT AM | 6800 | 4/05/89 | 0 | .0 | .0 | -- |
| QUINN RIDGE AM | 6300 | 4/05/89 | 0 | .0 | .0 | 1.1 |
| TROUT CREEK AM | 7800 | 4/05/89 | 43 | 16.8 | .0 | 10.7 |
| SNAKE RIVER BASIN | | | | | | |
| BEAR CREEK | 7800 | 3/30/89 | 75 | 27.9 | 19.6 | 22.2 |
| FOX CREEK | 6800 | 3/30/89 | 28 | 11.3 | 11.1 | 10.5 |
| GOAT CREEK | 8800 | 3/30/89 | 67 | 21.5 | 17.4 | 19.2 |
| HUMMINGBIRD SPRINGS | 8950 | 3/30/89 | 87 | 29.4 | 23.5 | 24.7 |
| JAKES CREEK AM | 7000 | 3/30/89 | 14 | 4.1 | -- | -- |
| MERRIT MOUNTAIN AM | 7000 | 3/30/89 | 24 | 9.8 | -- | 5.3 |
| POLE CREEK R.S. | 8330 | 3/30/89 | 62 | 21.8 | 20.6 | 22.0 |
| SEVENTYSIX CREEK | 7100 | 3/27/89 | 37 | 13.7 | 8.4 | 12.6 |
| STAG MOUNTAIN AM | 7700 | 3/30/89 | 20 | 7.6 | -- | 4.8 |

SNOW DATA MEASUREMENTS (CONT)

| SNOW COURSE | | ELEVATION | DATE | SNOW DEPTH | WATER CONTENT | LAST YEAR | AVERAGE 1961-85 |
|----------------------------|----|-----------|---------|---------------|------------------|--------------|--------------------|
| ----- | | | | | | | |
| OWYHEE RIVER BASIN | | | | | | | |
| BIG BEND | | 6700 | 3/27/89 | 34 | 13.5 | 6.0 | 9.0 |
| COLUMBIA BASIN | AM | 6650 | 3/30/89 | 18 | 7.0 | -- | 6.9 |
| FAWN CREEK | AM | 7050 | 3/27/89 | 44 | 17.2 | -- | 8.6 |
| GOLD CREEK | | 6600 | 3/27/89 | 15 | 5.9 | 1.7 | 5.3 |
| JACK CREEK, LOWER | | 6800 | 3/27/89 | 3 | .5 | .2 | 3.3 |
| JACK CREEK, UPPER | | 7250 | 3/27/89 | 32 | 11.8 | 6.3 | 10.4 |
| JACKS PEAK | | 8420 | 3/27/89 | 104 | 32.9 | 17.6 | 26.8 |
| LAUREL DRAW | | 6700 | 3/27/89 | 28 | 11.6 | 8.3 | 8.4 |
| LOUSE CANYON | AM | 6440 | 4/05/89 | 13 | 5.2 | .0 | 5.6 |
| TAYLOR CANYON | | 6200 | 3/27/89 | 10 | 3.3 | .1 | 3.7 |
| UPPER HUMBOLDT RIVER BASIN | | | | | | | |
| AMERICAN BEAUTY | AM | 7800 | 3/30/89 | 24 | 9.1 | -- | 9.2 |
| CORRAL CANYON | | 8500 | 4/04/89 | 51 | 18.6 | 13.2 | 18.9 |
| DORSEY BASIN | | 8100 | 4/04/89 | 46 | 17.6 | 10.0 | 14.8 |
| DRY CREEK | | 6500 | 4/04/89 | 0 | .0 | .0 | 2.8 |
| FRY CANYON | | 6700 | 3/27/89 | 15 | 5.4 | .1 | 6.9 |
| GREEN MOUNTAIN | | 8000 | 4/04/89 | 32 | 12.4 | 6.7 | 14.0 |
| HARRISON PASS #1 | | 6600 | 4/04/89 | 0 | .0 | .0 | 3.1 |
| HARRISON PASS #2 | | 7400 | 4/04/89 | 0 | .0 | 1.1 | 5.3 |
| LAMOILLE #1 | | 7100 | 4/04/89 | 27 | 9.1 | 5.7 | 9.3 |
| LAMOILLE #3 | | 7700 | 4/04/89 | 36 | 13.4 | 8.0 | 13.0 |
| LAMOILLE #5 | | 8700 | 4/04/89 | 110 | 43.2 | 20.3 | 28.9 |
| ROBINSON LAKE | AM | 9200 | 4/04/89 | 120 | 46.8 | -- | 29.9 |
| RODEO FLAT | | 6800 | 3/27/89 | 15 | 5.2 | 2.0 | 6.4 |
| RYAN RANCH | | 5800 | 4/04/89 | 0 | .0 | .0 | .2 |
| SMITH CREEK | | 7700 | 4/04/89 | 31 | 11.6 | 8.4 | 13.8 |
| TENT MTN, LOWER | AM | 7000 | 3/30/89 | 10 | 2.6 | -- | 4.6 |
| TENT MTN, UPPER | AM | 8350 | 3/30/89 | 76 | 29.6 | -- | 20.9 |
| TREMEWAN RANCH | | 5700 | 3/27/89 | 0 | .0 | .0 | .3 |
| TROUT CREEK, LOWER | | 6900 | 4/04/89 | 8 | 1.6 | .0 | 3.6 |
| TROUT CREEK, UPPER | AM | 8500 | 4/04/89 | 58 | 22.0 | 7.8 | 19.7 |

SNOW DATA MEASUREMENTS (CONT)

| SNOW COURSE | | ELEVATION | DATE | SNOW DEPTH | WATER CONTENT | LAST YEAR | AVERAGE 1961-85 |
|--------------------------------------|----|-----------|---------|---------------|------------------|--------------|--------------------|
| ----- | | | | | | | |
| LOWER HUMBOLDT RIVER BASIN | | | | | | | |
| BIG CREEK CAMPGROUND | | 6600 | 3/28/89 | 0 | .0 | .0 | 1.1 |
| BIG CREEK MINE | | 7600 | 3/28/89 | 2 | .7 | 2.5 | 5.1 |
| BIG CREEK SUMMIT | | 8700 | 3/28/89 | 42 | 14.8 | 10.9 | 12.0 |
| BIG CREEK, UPPER | | 7800 | 3/28/89 | 7 | 2.6 | 7.0 | 7.8 |
| BUCKSKIN, LOWER | | 6700 | 3/30/89 | 25 | 9.9 | 1.9 | 9.0 |
| GOLCONDA #2 | | 6000 | 3/30/89 | 12 | 4.3 | .0 | 4.0 |
| GRANITE PEAK | | 7800 | 3/30/89 | 89 | 34.9 | 9.8 | 17.6 |
| LAMANCE CREEK | | 6000 | 3/30/89 | 21 | 8.7 | .0 | 8.9 |
| MARTIN CREEK | | 6700 | 3/30/89 | 33 | 12.9 | 2.4 | 9.4 |
| MIDAS | | 7200 | 3/30/89 | 0 | .0 | -- | 2.8 |
| SNOWSTORM MTN | AM | 7420 | 3/30/89 | 42 | 16.0 | -- | 6.4 |
| TOE JAM AM | AM | 7700 | 3/30/89 | 34 | 9.0 | -- | 9.9 |
| CLOVER VALLEY & FRANKLIN RIVER BASIN | | | | | | | |
| HOLE-IN-MOUNTAIN | | 7900 | 4/04/89 | 75 | 29.0 | 12.3 | 22.1 |
| POLE CANYON #2 | | 7700 | 4/04/89 | 57 | 23.1 | 4.9 | 12.0 |
| EASTERN NEVADA | | | | | | | |
| BAKER CREEK #1 | | 7950 | 3/31/89 | 3 | 1.0 | 3.2 | 6.8 |
| BAKER CREEK #2 | | 8950 | 3/31/89 | 29 | 9.0 | 9.6 | 14.9 |
| BAKER CREEK #3 | AM | 9250 | 3/31/89 | 30 | 9.3 | 13.8 | 17.3 |
| BERRY CREEK | | 9100 | 3/29/89 | 38 | 11.9 | 12.9 | 14.2 |
| BIRD CREEK | | 7500 | 3/29/89 | 0 | .0 | .4 | 2.1 |
| DEFIANCE MINES | AM | 9400 | 3/30/89 | 44 | 13.6 | 16.6 | 16.6 |
| KALAMAZOO CREEK | | 7400 | 3/27/89 | 12 | 3.9 | 6.7 | 8.2 |
| MURRAY SUMMIT | | 7250 | 3/28/89 | 0 | .0 | .0 | 2.3 |
| ROBINSON SUMMIT | | 7600 | 3/28/89 | 0 | .0 | .0 | 1.0 |
| SILVER CREEK #2 | AM | 8000 | 3/30/89 | 10 | 3.1 | .0 | 5.2 |
| WARD MOUNTAIN #2 | | 9200 | 3/29/89 | 28 | 8.2 | 6.6 | 10.7 |
| LOWER COLORADO RIVER BASIN | | | | | | | |
| CORDUROY FLAT | | 8720 | 3/30/89 | 0 | .0 | -- | -- |
| KYLE CANYON | | 8200 | 3/29/89 | 8 | 3.5 | 3.0 | 9.9 |
| LEE CANYON #2 | | 9000 | 3/29/89 | 8 | 3.3 | 3.7 | 9.7 |
| LEE CANYON #3 | | 8500 | 3/29/89 | 4 | 1.6 | 2.4 | 8.5 |
| RAINBOW CANYON #2 | | 8100 | 3/29/89 | 32 | 12.4 | 6.4 | 15.8 |
| WHITE RIVER #1 | | 7400 | 3/30/89 | 0 | .0 | .0 | 2.2 |

SNOW SURVEY DRI-ASC

1 APRIL 1989

| DATE MAR | SITE | ELEVATION FEET | LOCATION | SNOW IN. | WATER IN. | DENSITY | % OF NORMAL |
|-------------|------|-------------------|-------------------------|-------------|--------------|---------|----------------|
| 29 | JC | 5800 | Clear Creek | 0 | 0 | --- | |
| 29 | SS | 7260 | Spooner Summit | 25.0 | 11.3 | .45 | |
| 27 | FT | 5250 | Cliff Ranch, Franktown | 0 | 0 | --- | |
| 27 | LV | 6540 | Little Valley | 0 | 0 | --- | |
| 27 | DC | 5160 | Davis Creek | 0 | 0 | --- | |
| 30 | 8 | 4590 | Jct. 395 & NV 27 | 0 | 0 | --- | |
| 30 | 6 | 5110 | Lancer | 0 | 0 | --- | |
| 30 | 4 | 5670 | Whites Creek | 0 | 0 | --- | |
| 30 | R | 5700 | Evergreen Hills Rd. | 0 | 0 | --- | |
| 30 | 2 | 6000 | Jones Creek | 0 | 0 | --- | |
| 30 | 0 | 6400 | RNR Forestry Site | 0 | 0 | --- | 0 |
| 30 | N | 7060 | Reindeer Lodge | 0 | 0 | --- | 0 |
| 30 | M | 7440 | Galena Creek | 43.0 | 18.2 | .42 | 81 |
| 30 | K | 7620 | Sky Tavern | 28.0 | 13.4 | .48 | 73 |
| 30 | G | 8280 | Mt. Rose Resort | 71.0 | 30.5 | .43 | 85 |
| 30 | D | 8820 | Tamarack Lake | 83.0 | 33.5 | .40 | 98 |
| 30 | A | 8540 | Tahoe Meadows | 96.0 | 40.3 | .42 | 91 |
| 30 | U | 8000 | Below Incline Lake | 48.0 | 21.2 | .43 | 74 |
| 30 | V | 7300 | Apollo Way | 0 | 0 | --- | 0 |
| 29 | Z | 6235 | Third & Incline Creeks | 0 | 0 | --- | |
| 29 | BS | 7200 | Brockway Summit | 45.0 | 19.4 | .43 | |
| 29 | NS | 6320 | North Star Fire Dept. | 0 | 0 | --- | |
| 29 | TRK | 5900 | Truckee - Tahoe Airport | 0 | 0 | --- | |
| 29 | CK | 6540 | Cabin Creek | 25.0 | 13.2 | .53 | |
| 29 | SV | 6240 | Squaw Valley Fire Dept. | 10.0 | 5.2 | .52 | |
| 29 | TC | 6200 | Thunder Cliff | 16.0 | 7.0 | .44 | |
| 29 | TP | 6240 | Tahoe City | 9.0 | 3.8 | .42 | |
| 29 | BF | 6200 | Bennett Flat | 20.0 | 10.6 | .53 | |
| 29 | AC | 6960 | Alder Creek | 83.0 | 41.5 | .50 | |
| 29 | HM | 5850 | Hobart Mills | 4.0 | 2.1 | .53 | |
| 30 | SA | 6340 | Sagehen Creek | 18.0 | (9.0) | (.50) | |
| 29 | LT | 6410 | Henness Past Jct. | 24.0 | 10.2 | .43 | |
| 29 | FL | 6200 | Fuller Lake | 0 | 0 | --- | |
| 27 | JL | 6000 | Joy Lake | 0 | 0 | --- | |



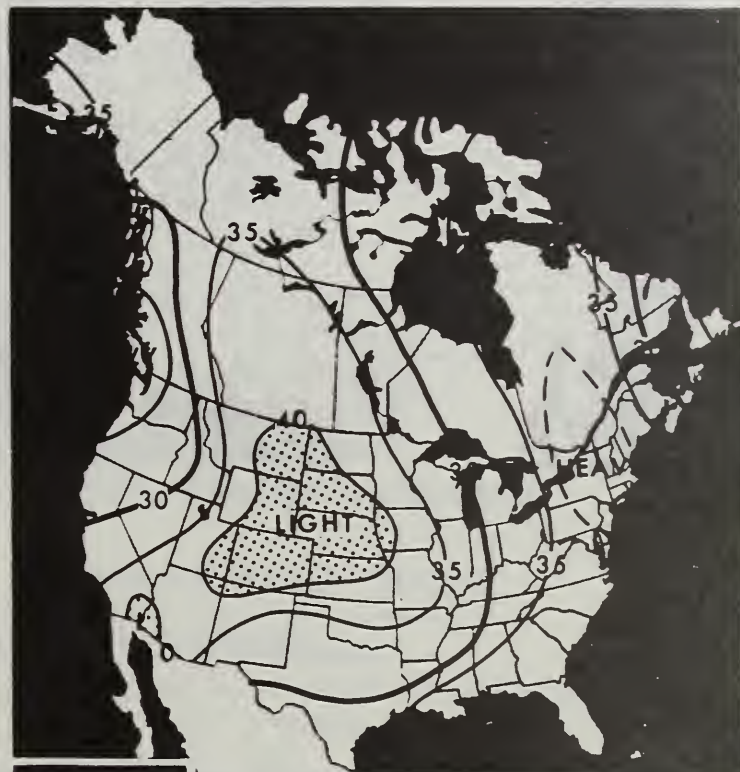
MONTHLY & SEASONAL WEATHER OUTLOOK

U.S. DEPARTMENT OF COMMERCE • National Oceanic and Atmospheric Administration • National Weather Service

FOR APRIL 1989



TEMPERATURE PROBABILITIES

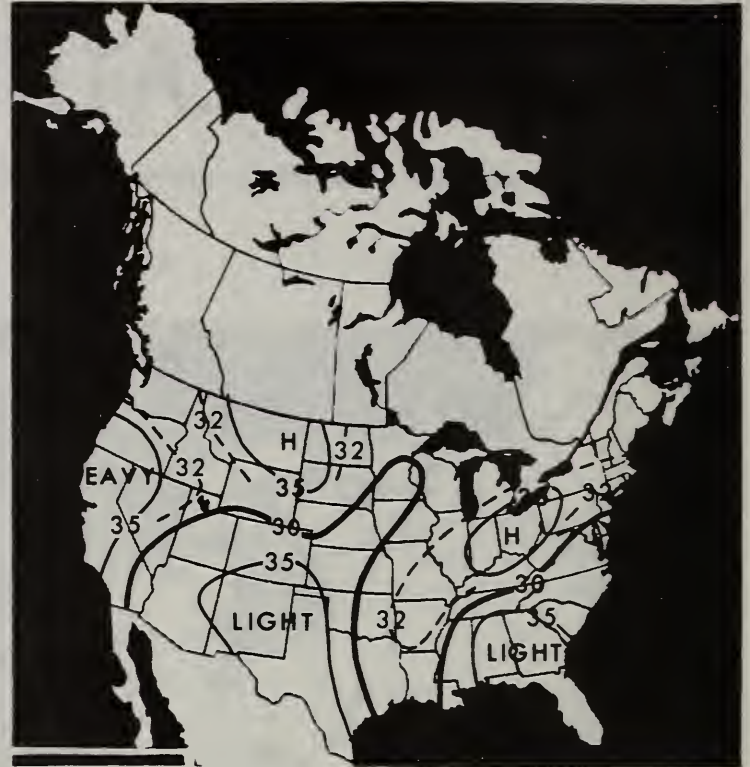


PRECIPITATION PROBABILITIES

90-DAY OUTLOOK FOR APRIL THROUGH JUNE 1989



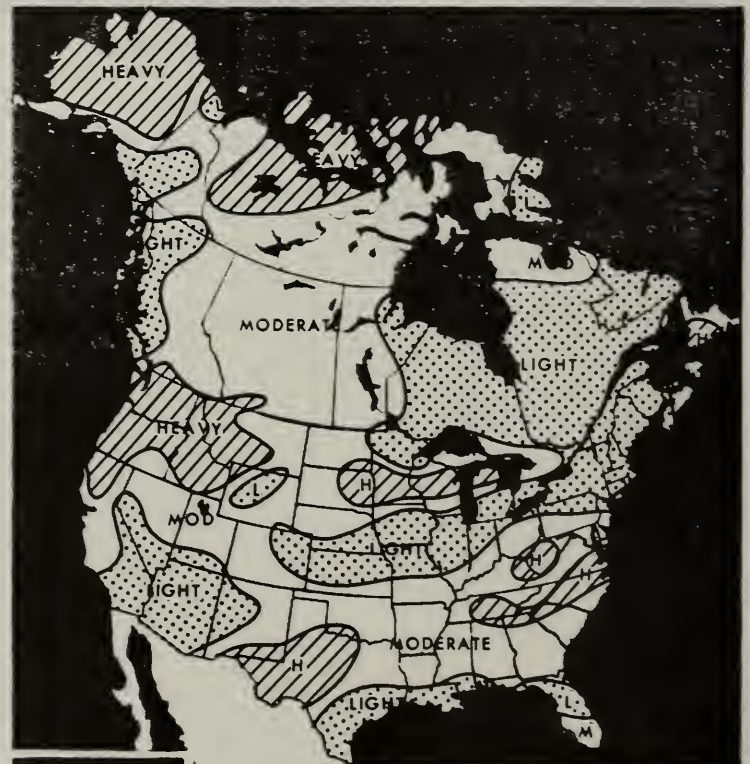
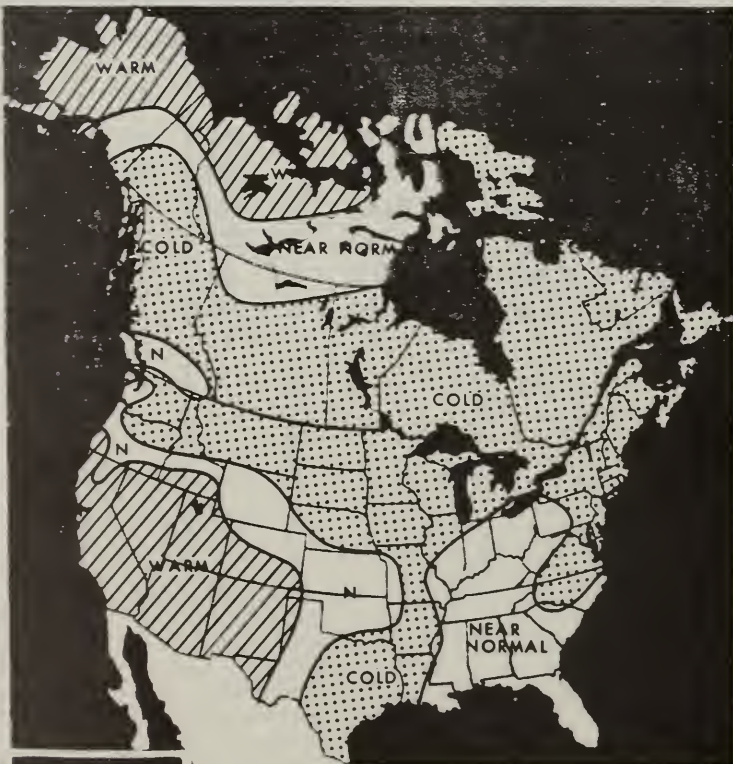
TEMPERATURE PROBABILITIES



PRECIPITATION PROBABILITIES

OBSERVED FOR MID-FEBRUARY TO MID-MARCH 1989

BASED ON PRELIMINARY REPORTS



FOR MORE INFORMATION, CONTACT YOUR LOCAL SOIL CONSERVATION SERVICE OFFICE

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Eureka, NV 89316
(702) 237-5251

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Minden, NV 89423
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(702) 883-2623 (Carson City/Reno)

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(702) 726-3101

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Ely, NV 89301
(702) 289-4065

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Fallon, NV 89406
(702) 423-5124

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Reno, NV 89502
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The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

STATE

California Cooperative Snow Surveys
California Department of Parks and Recreation
California Department of Water Resources
Colorado River Commission of Nevada
Idaho Cooperative Snow Surveys
Nevada Association of Conservation Districts
Nevada Department of Conservation & Natural Resources
 Division of Water Resources
 Nevada State Forester
 Division of Conservation Districts
Oregon Cooperative Snow Surveys
University of Nevada, Desert Research Institute
Utah Cooperative Snow Surveys

FEDERAL

Bureau of Reclamation
Forest Service
Geological Survey
Soil Conservation Service
U.S. District Court - Federal Water Master
MOAA, National Weather Service

PRIVATE

Nevada Irrigation District
Owyhee Project North Board of Control
Owyhee Project South Board of Control
Pacific Gas and Electric Company
Pershing County Water Conservation District
Sierra Pacific Power Company
Truckee - Carson Irrigation District
Walker River Irrigation District
Washoe County Water Conservancy District
Las Vegas Valley Water District

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
1201 TERMINAL WAY, SECOND FLOOR
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**Nevada
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